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April 6, 2006

5282.02

California Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Attention: Mr. Ron Allen

Subject: Groundwater Monitoring Report; First Quarter 2006
Crescent City Shell; 1006 North Highway 101, Crescent City, California
CRWQCB Case No. 1TDN026; USTCF No. 541

Dear Mr. Allen:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the first quarter of 2006 for the Crescent City Shell site in Crescent City, California. This report was prepared on behalf of W & S Enviro in accordance with the requirements of the Pay-for-Performance (PFP) agreement.

The following elements are included:

- Summary of work performed;
- Site chronology;
- Tabular summary of hydraulic head and gradients;
- Tabular summary of analytical data;
- Summary of remediation system operation and maintenance;
- Location map, site map, and hydraulic gradient figures;
- Charts of declining concentration trends; and
- Statement of recommendations and future work.

Please do not hesitate to call (707) 443-5054 if you have any questions or concerns.

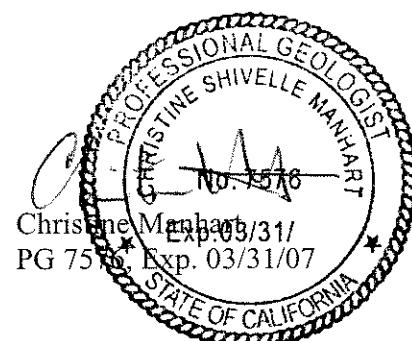
Sincerely,
LACO ASSOCIATES

Caroline Levenda
Staff Geologist

CJL:jg

Attachments

cc: Jim Seiler, W & S Enviro (electronically sent)



GROUNDWATER MONITORING REPORT; FIRST QUARTER 2006

Crescent City Shell; 1006 North Highway 101, Crescent City, California

CRWQCB Case No. 1TDN026; USTCF No. 541; LACO Project No. 5282.02

EXECUTIVE SUMMARY

This report presents the results of the first quarter of 2006 groundwater monitoring for the PFP project at the above-referenced site. On February 14, 2006, groundwater and vapor samples were collected for performance and quarterly monitoring. Constituents of concern (COC) include total petroleum hydrocarbons as gasoline (TPHg); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and total petroleum hydrocarbons as diesel (TPHd).

INTRODUCTION

The goal of PFP is to reduce the mass secondary source COC through injection of ozone, thereby preventing discharge and increasing the decay rates of TPHg, TPHd, BTEX, and the fuel oxygenate methyl tertiary butyl ether (MTBE) to groundwater. Mass reduction of the secondary source is determined using dissolved-phase concentrations from key and perimeter monitoring wells as a proxy for sorbed-phase mass. During this quarter, groundwater samples were collected from key and perimeter monitoring wells to assess dissolved-phase concentrations and trends on-site.

Please refer below to Table A for the current groundwater monitoring details of the February 14, 2006, sampling event. Monitoring well sampling protocol is included in LACO's *Standard Operating Procedures*, on file at your office. A location and site map are provided as Figures 1 and 2, respectively.

MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE	
					ORGANICS	INORGANICS		
MW1	5-15	3.37	DHP	pH, T, ECw, ORP, DO	TPHg, TPHd w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	Diss Cr	Quarterly	
MW2	5-15	2.46			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
MW3	5-15	4.10			TPHg, TPHd w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	Diss Cr		
MW4	4-14	3.28			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
MW5	4-19	3.73			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
MW6	10-14	4.27			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
MW7	10-15	4.05			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
MW8	10-15	2.99			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
OW1	5-10	3.92	Cam pump		TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
OW2	5-10	3.98			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
OW3	5-10	4.10			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
OW4	5-10	3.18			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
OW5	5-10	3.25			TPHg, TPHd/mo w/SGC, BTEX, MTBE, TBA, DIPE, ETBE, TAME	---		
DW	---	2.19	DHP		---	---		
PZ1	5-15	3.43	DHP		---	---		

A key to abbreviations is included as Attachment 1.

Additionally, on February 14, 2006, vapor samples were collected from vapor points VP1 through VP6. Vapor samples were collected with a vacuum pump into laboratory-supplied 1-liter Tedlar bags. Samples were submitted to Air Toxics Ltd. under standard chain-of-custody protocols for analysis of BTEX and MTBE by Method TO-14A.

SITE CHRONOLOGY

An updated site chronology outlining sampling dates and operation and maintenance of the ozone system is included as Attachment 2.

HYDRAULIC GRADIENT AND HYDROGEOLOGY

The aquifer identified in the vicinity of the subject property primarily comprises approximately 5 feet of poorly graded sand underlain by silty sand to sandy silt. The silty sand unit extends to approximately 40 feet below ground surface and is typical of marine terrace deposits. Based on review of the Smith River Plain Groundwater Study, marine terrace deposits at the site are likely

part of the Pleistocene Battery Formation (Department of Water Resources, 1987), which is described as the principal aquifer in the Crescent City area.

Groundwater is generally found at depths between approximately 0.5 to 13.5 feet. Calculated hydraulic gradients have been, in general, consistently to the northeast and southeast. The site sits between two unnamed drainages, one located approximately 1,200 feet east, and one located approximately 2,500 feet south (Figure 1). These drainages likely dominate groundwater flow direction at the site.

Based on the well screen intervals on-site, separate gradients are determined using the monitoring wells (deeper screened intervals) and observation wells (shallow screened intervals). However, because some hydraulic head elevations may be influenced by subsurface anomalies (i.e. underground storage tank [UST] cavities, trenching, ozone sparging), the hydraulic head elevations may not be representative of current water table conditions. In addition, hydraulic gradients can vary across the site. Hydraulic gradients were calculated using monitoring wells and observation wells with similar screen intervals and located in the vicinities of each other. Deep and shallow gradients were calculated and described below.

The potentiometric surface for groundwater measured in the deep wells was contoured from hydraulic head measurements using Surfer 7.0 software and is presented in Figure 3. Monitoring wells MW2, MW3, and MW4 were used to calculate the deep well hydraulic gradient by the three-point method using hydraulic head elevation data collected during the February 14, 2006, monitoring event. The hydraulic gradient for deep wells during the February 14, 2006, sampling event is less than 0.01 foot per foot in a S6°E direction (Figure 3) and is consistent with historical hydraulic gradients.

The potentiometric surface for groundwater measured in the shallow wells was contoured from hydraulic head measurements using Surfer 7.0 software and is presented on Figure 4. Observation wells OW1, OW3, and OW4 were used to calculate the shallow well hydraulic gradient by the three-point method using hydraulic head elevation data collected during the February 14, 2006, monitoring event. The hydraulic gradient for shallow wells during the February 14, 2006, sampling event is 0.02 foot per foot in a S19°E direction (Figure 4) and is consistent with historical hydraulic gradients.

LABORATORY RESULTS

Groundwater laboratory analytical results from the February 14, 2006, monitoring event are included below in Table B. Performance monitoring results are presented in Table 1. Field intrinsic analyses are included as Table 2, and historical groundwater monitoring data is included as Table 3. Tables 4 and 5 present current and historical chromium and vapor analysis data, respectively. Field vapor sampling points are included in Figure 2. Field sampling data forms are included as Attachment 3, and copies of the laboratory reports for this reporting period are included as Attachment 4. Charts 1 through 6 present concentration time trends in monitoring wells MW1, MW2, and MW5 through MW8.

Table B: Analytical Results for February 14, 2006

WELL	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Organic Analytes ($\mu\text{g/l}$)
MW1	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND
MW2	ND<50	55	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.8	Other oxygenates ND
MW3	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND < 1.0	All oxygenates ND
MW4	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND < 1.0	All oxygenates ND
MW5	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND < 1.0	All oxygenates ND
MW6	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND < 1.0	All oxygenates ND
MW7	ND <0.50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.1	Other oxygenates ND
MW8	1,900	140	---	1.8	0.54	16	10.0	ND<1.0	All oxygenates ND
OW1	ND <50	ND <50	ND <170	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
OW2	ND <50	ND <50	ND <170	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
OW3	1,700	82	---	ND <0.50	0.96	4.7	52	ND<1.0	All oxygenates ND
OW4	640	50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND
OW5	69	ND<50	---	ND<0.50	ND<0.50	0.51	ND<0.50	ND<1.0	All oxygenates ND
DW	ND <50	ND <50	ND <170	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND

DISCUSSION OF ANALYTICAL RESULTS

Groundwater results for the February 2006 quarterly sampling event indicate that petroleum hydrocarbon concentrations generally continue to exhibit a declining trend or continue to be reported below standard detection limits for all wells with the exception of monitoring well MW8. The results reported in monitoring well MW8 during this quarter remain within the same order of magnitude of concentrations reported last quarter.

Dissolved chromium concentrations were reported for monitoring wells MW2 and MW4 at 28 $\mu\text{g/l}$ and 11 $\mu\text{g/l}$, respectively. All other wells were reported below the detection limit of 10 $\mu\text{g/l}$ for dissolved chromium. Results of historical chromium analyses are presented in Table 4.

Vapor results to date indicate BTEX constituents for the sampled points have generally decreased by three to four orders of magnitude, to below detection limits, since the initiation of the *in-situ* chemical oxidation system. Vapor results at vapor points VP-1 through VP-6 were reported as non-detect for all analytes; vapor points VP-3 and VP-4 were not sampled during this event. Air Toxics Ltd. laboratory case narrative indicates no receiving or analytical discrepancies during this monitoring event. Results of historical vapor sample analyses are presented in Table 5, and laboratory reports for vapor sample analyses are included in Attachment 4.

REMEDIATION SYSTEM OPERATION AND MAINTENANCE

Remediation system operations and maintenance field forms are included as Attachment 5. As of January 20, 2006, the ozone generator was operational for 13748.16 hours. To date, ozone injection is approximately 109 kilograms. Historical ozone injection and system run times are included in Table 6.

RECOMMENDATIONS AND FUTURE WORK

- Quarterly groundwater monitoring will continue as scheduled. The next sampling event is scheduled for May 2006.
- LACO recommends discontinuing monitoring at monitoring well MW3 and observation wells OW1 and OW2 due to analytical results reported below standard laboratory detection limits for all analytes tested in these wells for at least one hydrologic cycle.

LIMITATIONS

LACO has conducted the services identified herein in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing in our area under similar conditions as this project. No other warranty or representation, express or implied, is included or intended for this document.

This report is an instrument of service of LACO and was prepared for, and intended for, the exclusive use of the client. The contents of this report may not be relied upon by any other party other than the client without express written permission of LACO.

This report's findings are based on conditions that existed on the dates indicated and in the specific locations where samples were taken. The findings herein should not be relied on to precisely represent conditions at any other time or location.

REFERENCES

Department of Water Resources, 1987. Smith River Plain Groundwater Study. State of California The Resources Agency Department of Water Resources Northern District. December, 1987

LIST OF FIGURES, TABLES, CHARTS, AND ATTACHMENTS

Figure 1: Location Map

Figure 2: Site Map

Figure 3: Deep-Well Hydraulic Gradient Map (2/14/06)

Figure 4: Observation-Well Hydraulic Gradient Map (2/14/06)

Table 1: Performance Monitoring Sampling Results

Table 2: Intrinsics Analyses Monitoring Results

Table 3: Groundwater Elevation Data and Groundwater Analytical Results

Table 4: Chromium Analyses Results

Table 5: Results of Vapor Sample Analyses

Table 6: Historical Ozone Injection and System Run Times

Chart 1: Combined TPH, Benzene, and MTBE Concentrations in Groundwater in MW1

Chart 2: TPHg, TPHd, Benzene, and MTBE Concentrations in Groundwater in MW2

Chart 3: TPHg, Benzene, and MTBE Concentrations in Groundwater in MW5

Chart 4: TPHg, TPHd, Benzene, and MTBE Concentrations in Groundwater in MW6

Chart 5: TPHg, Benzene, and MTBE Concentrations in Groundwater in MW7

Chart 6: TPHg and MTBE Concentrations in Groundwater in MW8

Attachment 1: Key to Abbreviations

Attachment 2: Project Chronology

Attachment 3: Field Forms

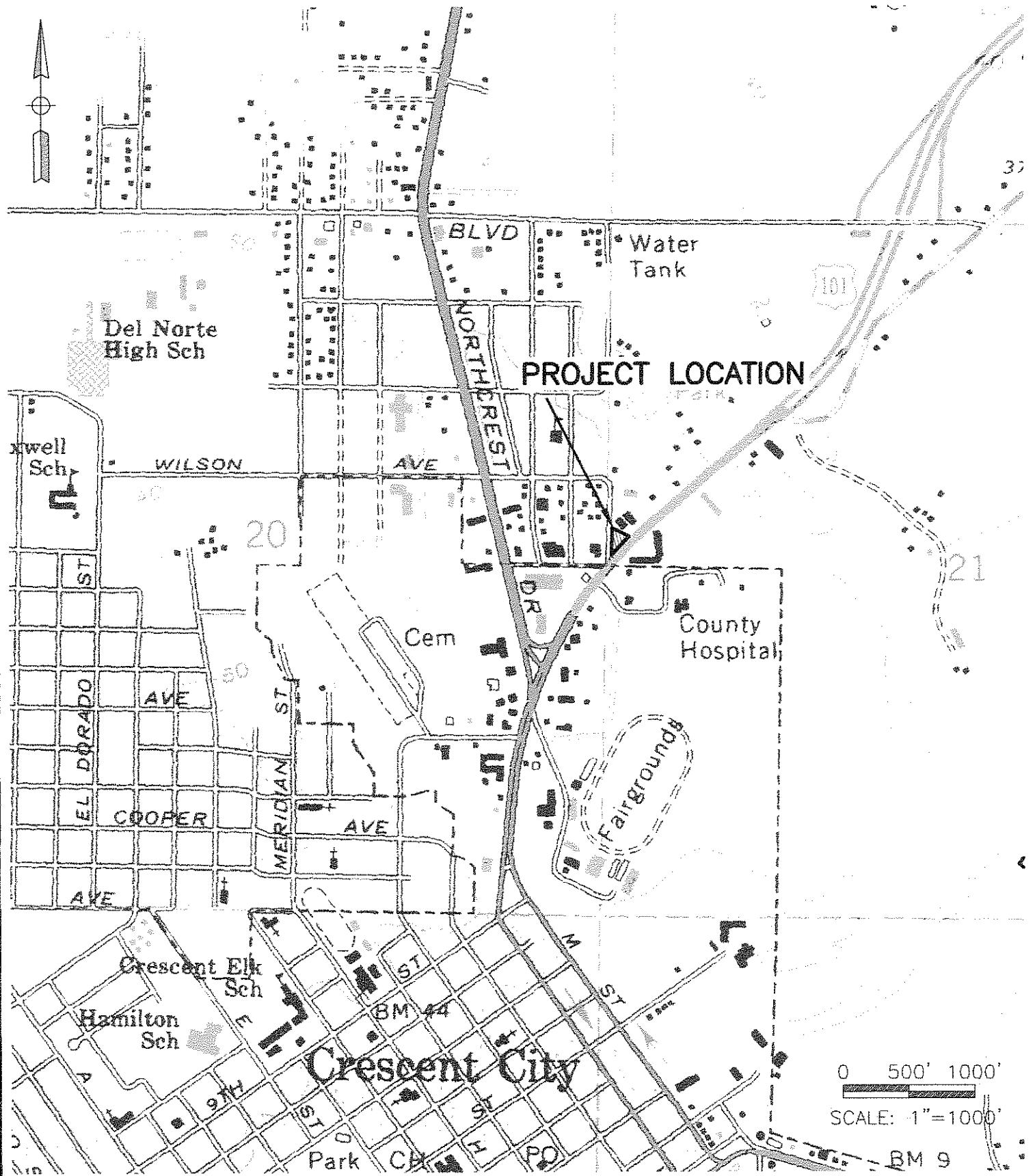
Attachment 4: Current Laboratory Reports

Attachment 5: Ozone System Operations and Maintenance Field Forms



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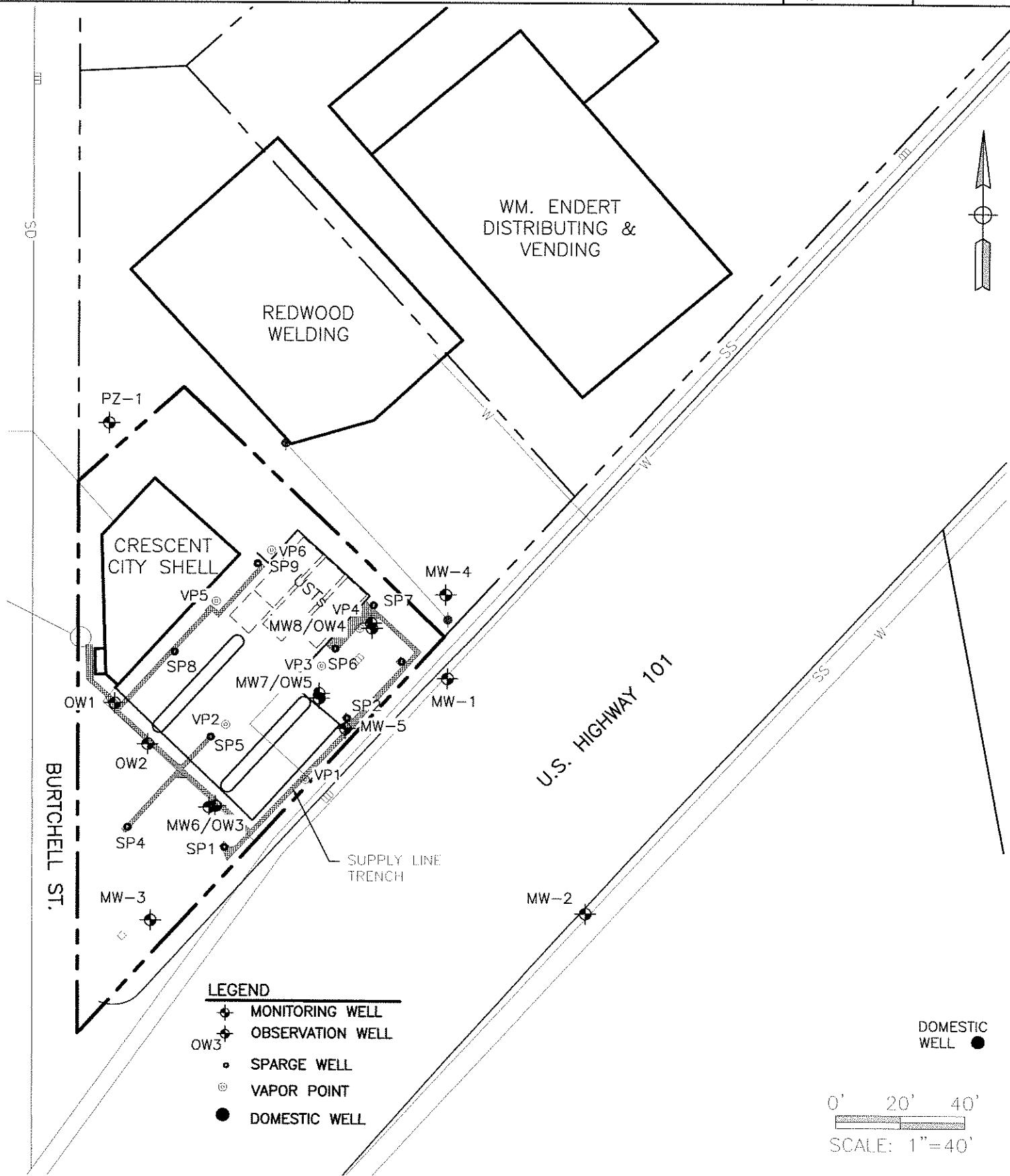
PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
CLIENT	W & S ENVIRO	DATE	3/27/06	1
LOCATION	CRESCENT CITY SHELL	CHECK		JOB NO.
	LOCATION MAP	SCALE	1"=1000'	5282.02





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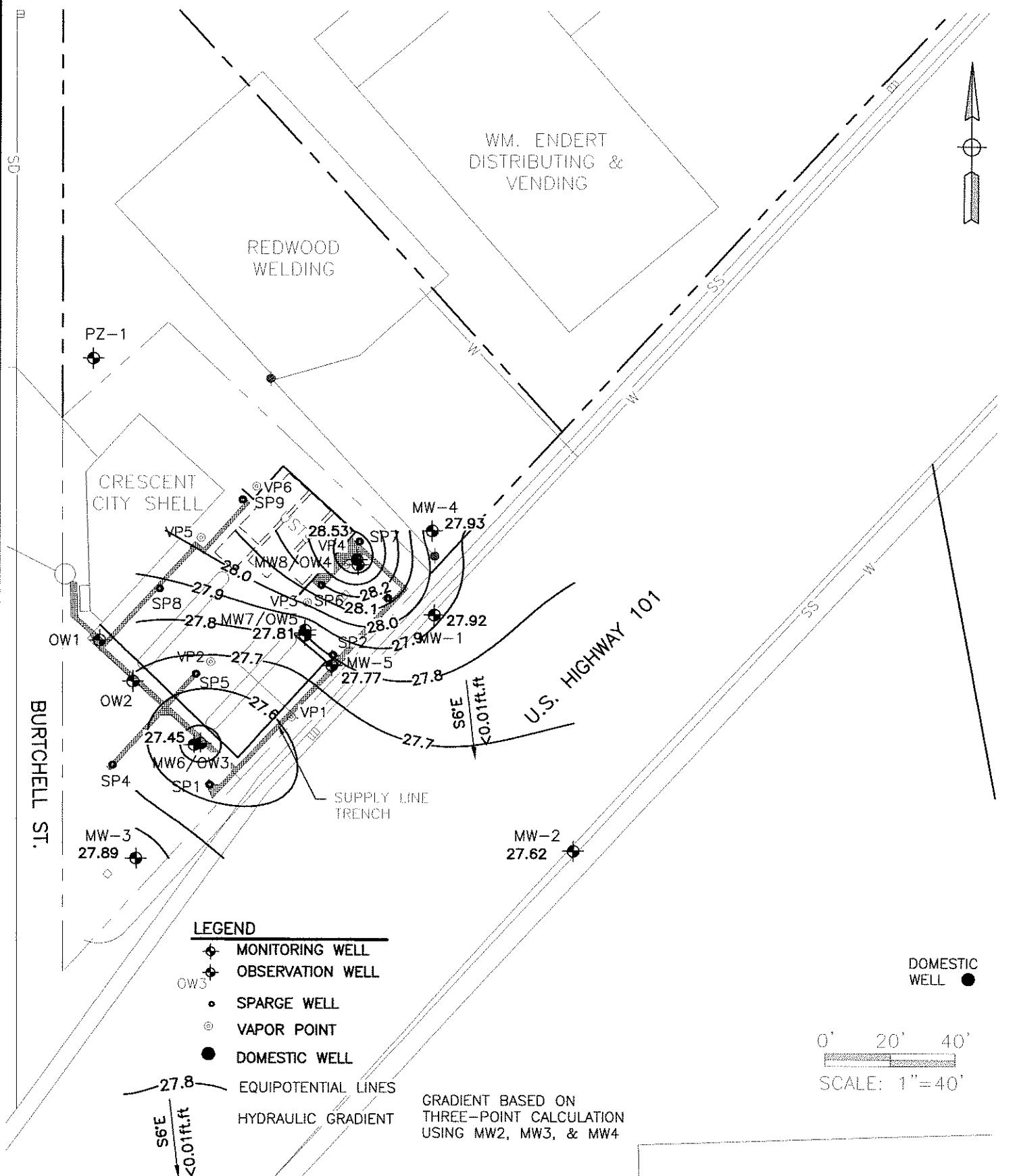
PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
CLIENT	W & S ENVIRO	DATE	3/27/06	2
LOCATION	CRESCENT CITY SHELL	CHECK	<i>a</i>	JOB NO.
SITE MAP		SCALE	1"=40'	5282.02





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PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
CLIENT	W & S ENVIRO	DATE	3/27/06	3
LOCATION	CRESCENT CITY SHELL	CHECK	<i>cr</i>	JOB NO.
	DEEP-HYDRAULIC GRADIENT MAP (2/14/06)	SCALE	1"=40'	5282.02





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PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
CLIENT	W & S ENVIRO	DATE	3/27/06	4
LOCATION	CRESCENT CITY SHELL	CHECK	cc	JOB NO.
	OBSERVATION-HYDRAULIC GRADIENT MAP (2/14/06)	SCALE	1"=40'	5282.02

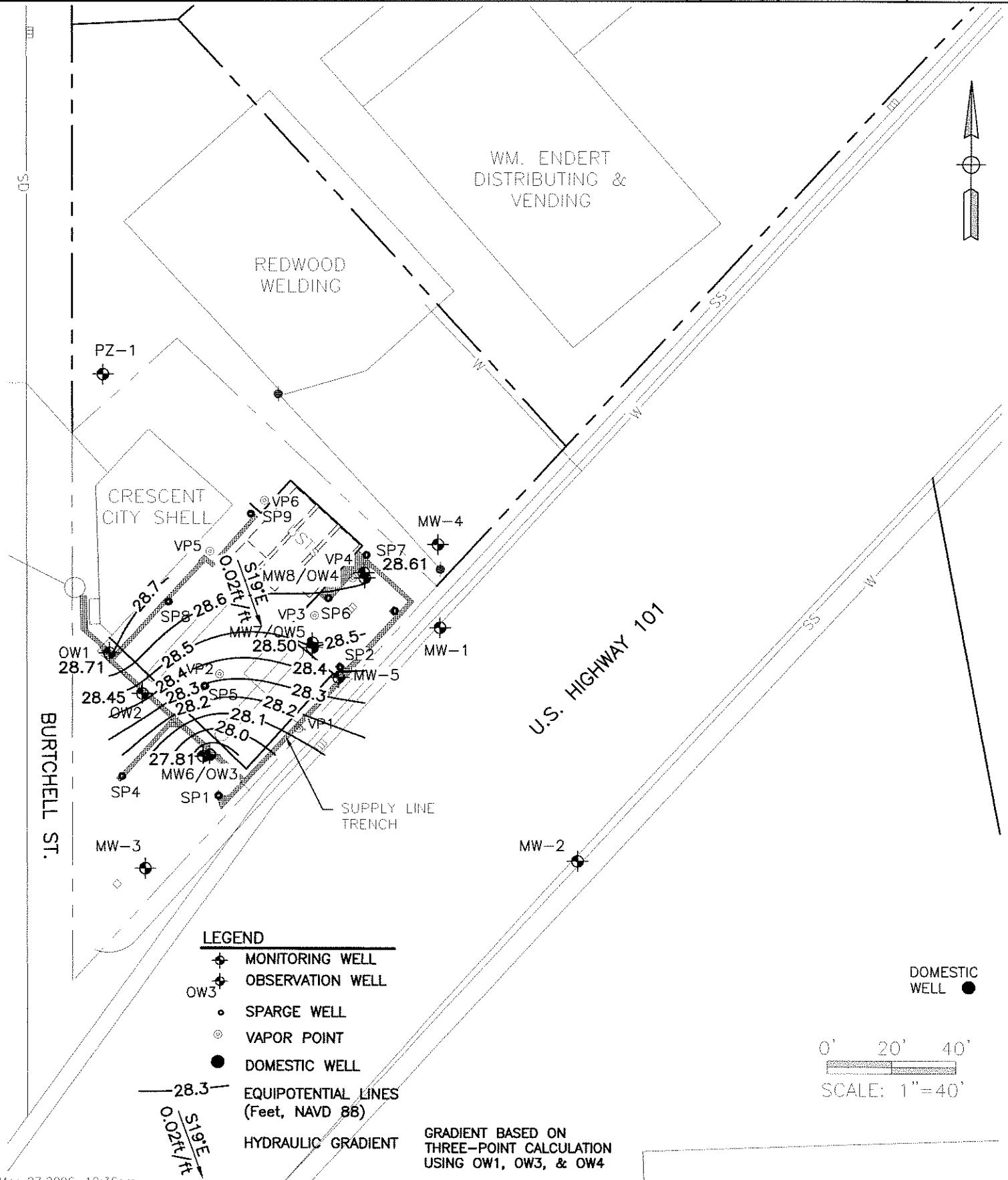


TABLE I: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PFP, LACO Project No. 5282.02

1606 N. Highway 101, Crescent City, CA; Case No. J1TDN026

PARGs	Date	Contaminants of Concern						Fuel Oxygenates						
		TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TAME	TBA	ETBE	DiPE	TBF	
MW-1	10/9/02- Baseline Data	11/4/02	56,000	270,000	500	2,700	1,200	2,900	5,280	1,200	220	ND>20	ND>20	---
	11/12/02	7,000	490	58	ND<25	242	1,100	98	1,000	ND<50	ND<50	---	---	---
	11/27/02	870	970	ND<0.50	ND<0.50	2.0	2.0	740	57	460	1.4	ND<1.0	ND<2.0	---
	12/10/02	4,800	560	8.2	2.8	75	66	690	32	430	ND<5.0	ND<5.0	ND<2.0	---
	12/23/02	3,100	62	11.0	4.9	63	88	540	43	ND<100	1.2	ND<1.0	ND<2.0	---
	1/9/03	780	160	1.7	1.1	8.6	18	540	53	42	ND<1.0	ND<1.0	---	---
	1/20/03	200	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	310	18	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	2/12/03	140	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	190	9.4	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	3/12/03	100	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	160	8.8	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	4/17/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	42	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	5/14/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	6/10/03	1,200	380	15	4.4	16	184	72	17	26	ND<1.0	ND<1.0	ND<2.0	---
	7/16/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	8/15/03	ND<50	ND<50	ND<0.50	ND<0.50	1.3	1.1	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	9/16/03	ND<50	ND<50	ND<0.50	ND<0.50	0.5	1.1	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	10/15/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	11/19/03	2,200	140	110	11	18	95	75	18	45	ND<1.0	ND<1.0	ND<2.0	---
	12/11/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	1/14/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.5	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	2/9/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.9	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	---
	3/10/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.53	1.6	ND<1.0	ND<10	ND<1.0	ND<2.0	---
	4/14/04	190	50	ND<0.50	ND<0.50	0.96	10.3	4.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	5/13/04	ND<50	ND<50	ND<0.50	ND<0.50	0.64	1.4	4.3	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	6/24/04	1,300	93	120	12	11	148	59	31	31	ND<1.0	ND<1.0	ND<2.0	---
	7/27/04	4,900	380	440	69	91	530	72	24	46	ND<1.0	ND<1.0	ND<2.0	---
	9/21/04	590	67	27	6.4	8.7	85	34	9.4	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	10/19/04	570	78	40	8	13	78	27	5.2	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	2/16/05	4,100	270	83	160	85	870	12	5.8	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	3/15/05	1,100	68	42	15	10	198	28	8.7	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	5/12/05	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	8/9/05	3,800	260	530	56	2.2	470	39	44	ND<40	ND<1.0	ND<1.0	ND<2.0	---
	11/5/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0	---
	2/14/06	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0	---

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PIP: LACO Project No. 5282.02

1006 N. Highway 101, Crescent City, CA, Case No. 11TDN026

PARGS	Date	Contaminants of Concern						Fuel Oxygenates						
		TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TAME	TBA	ETBE	DIPE	TBF	
Baseline Data		11/4/02-		2,000		90		320		0.73		ND<0.50		
11/12/02		5,700		75		1,500		1.7		ND<0.50		5.0		
11/27/02		5,000		92		1,200		0.64		ND<0.50		2.4		
12/10/02		5,700		76		1,000		4.2		ND<2.5		5.3		
12/23/02		430		ND<50		8.8		ND<0.50		0.61		0.82		
1/9/03		340		ND<50		1.3		ND<0.50		ND<0.50		ND<0.50		
1/30/03		470		ND<50		1.0		ND<0.50		ND<0.50		0.59		
2/12/03		580		ND<50		1.4		ND<0.50		ND<0.50		0.52		
3/12/03		200		ND<50		ND<0.50		ND<0.50		ND<0.50		ND<0.50		
4/17/03		200		ND<50		ND<0.50		ND<0.50		ND<0.50		ND<0.50		
5/14/03		84		ND<50		ND<0.50		ND<0.50		ND<0.50		ND<0.50		
6/10/03		77		ND<50		1.1		0.66		ND<0.50		ND<0.50		
7/16/03		65		ND<50		1.1		ND<0.50		ND<0.50		0.6		
8/15/03		84		ND<50		7.6		ND<0.50		ND<0.50		ND<0.50		
9/16/03		650		ND<50		20		ND<0.50		0.63		2.16		
10/15/03		2,200		75		63		1.6		2.3		7.3		
11/19/03		1,200		ND<50		2.3		ND<0.50		ND<0.50		1,800		
12/11/03		120		ND<50		3.0		ND<0.50		ND<0.50		3.9		
1/14/04		ND<50		ND<50		ND<0.50		ND<0.50		ND<0.50		27		
2/9/04		ND<50		ND<50		ND<0.50		ND<0.50		ND<0.50		390		
3/10/04		ND<50		ND<50		ND<0.50		ND<0.50		ND<0.50		17		
4/14/04		ND<50		ND<50		ND<0.50		ND<0.50		ND<0.50		47		
5/13/04		ND<50		ND<50		ND<0.50		ND<0.50		ND<0.50		ND<0.50		
6/24/04		210		ND<50		ND<0.50		ND<0.50		ND<0.50		160		
7/27/04		160		ND<50		6.0		ND<0.50		ND<0.50		1.13		
9/21/04		930		94		ND<0.50		ND<0.50		0.65		620		
10/19/2004		680		ND<50		26		ND<0.50		ND<0.50		680		
2/16/05		ND<50		ND<50		ND<0.50		ND<0.50		ND<0.50		40		
5/12/05		ND<50		ND<50		ND<0.50		ND<0.50		ND<0.50		4.4		
8/9/05		330		ND<50		ND<0.50		ND<0.50		ND<0.50		620		
11/15/05		160		20		ND<0.50		ND<0.50		ND<0.50		96		
2/14/06		ND<50		55		ND<0.50		ND<0.50		ND<0.50		7.8		

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PPP; LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA, Case No. ITDN026

PARGs MW-4	Date	Contaminants of Concern						Fuel Oxygenates					
		TPhg 12,500	TPhg 500	Benzene 500	Toluene 300	Ethylbenzene 300	Total Xylenes 300	MtBE ---	TAME ---	TBA ---	ETBE ---	DPE ---	TBF ---
Baseline Data	11/14/02	330	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<50	ND<50	ND<50	ND<50	ND<1.0	ND<1.0
	10/9/02	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<50	ND<50	ND<50	ND<50	ND<1.0	ND<1.0
	11/12/02	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<50	ND<50	ND<50	ND<50	3.7	ND<20
	11/27/02	ND<50	ND<50	1.3	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	1.6	ND<20
	12/10/02	ND<50	ND<50	0.76	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	13	ND<1.0
	12/23/02	ND<50	ND<50	ND<0.50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	2.2	ND<1.0
	1/9/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<2.0
	1/30/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<2.0
	2/12/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<2.0
	3/12/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0	ND<1.0
	4/17/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	ND<1.0
	5/14/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.0	ND<1.0
	6/10/03	89	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	86	1.2
	7/16/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.7	ND<20
	8/15/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	ND<1.0
	9/16/03	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	10/15/03	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	11/19/03	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	12	ND<1.0
	12/11/03	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	1/14/03	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	2/9/04	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	3/10/04	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	4/14/04	66	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	5/13/04	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	6/24/04	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	7/27/04	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	7.9	ND<1.0
	9/21/04	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	4.4	ND<1.0
	10/19/04	ND <0.50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	7.7	ND<1.0
	2/16/05	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.1	ND<1.0
	5/12/05	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	8/9/05	ND <50	ND <50	0.75	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	4.7	ND<1.0
	11/15/05	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0
	2/14/06	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	ND<2.0

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PFP, LACO Project No. 5282-02

1006 N. Highway 101, Crescent City, CA; Case No. 1 TDN026

PARGS MW-5	Date 10/9/02- 11/4/02	Contaminants of Concern						Fuel Oxygenates					
		TPH _g 12,500	TPH _d 500	Benzene 500	Toluene 300	Ethylbenzene 300	Total Xylenes 300	MTBE	TAME	TBA	ETBE	DiPE	TBF
Baseline Data								ND<0.50	10,000	580	530	ND<20	***
11/12/02	2,400	ND<50	4,700	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,700	0.97	750	4.7	ND<10	***
11/27/02	2,400	ND<50	2.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,800	260	610	16	ND<10	ND<10
12/10/02	2,000	ND<50	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,400	190	760	10	ND<5.0	ND<5.0
12/23/02	1,100	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,600	89	140	5.6	ND<1.0	ND<5.0
1/9/03	240	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	280	8.2	22	1.8	ND<1.0	***
1/30/03	71	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	79	3.2	ND<20	ND<1.0	ND<1.0	ND<2.0
2/12/03	110	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	87	ND<1.0	ND<20	4.8	ND<1.0	ND<2.0
3/12/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
4/17/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
5/14/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
6/10/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
7/16/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
8/15/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
9/16/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
10/15/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
11/19/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
12/11/03	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
1/14/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
2/9/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
3/10/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
4/14/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
5/13/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
6/24/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0
7/27/04	51	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
9/21/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
10/19/04	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
2/16/05	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
3/15/05	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
5/12/05	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
8/9/05	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
11/15/05	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0
2/14/06	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PFP, LACO Project No. 5282.02
1000 N. Highway 101, Crescent City, CA, Case No. 1TDN026

PARGs	Date	Contaminants of Concern						Fuel Oxygenates					
		TPhg	TPhd	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TAME	TBA	ETPE	DPE	TBF
OW-3	12/9/02	59,000	---	4,200	4,100	1,900	300	300	300	---	---	---	---
	12/23/02	4,700	51	76	96	31	320	2,600	240	ND<1000	ND<50	ND<50	ND<2.0
1/9/03	2,600	120	9.9	17	9.8	150	890	94	1,500	ND<1.0	ND<1.0	ND<1.0	---
1/30/03	4,800	460	19	28	41	281	470	52	730	ND<1.0	ND<1.0	ND<1.0	ND<2.0
2/12/03	3,000	490	21	32	29	330	440	43	1,100	ND<5.0	ND<5.0	ND<5.0	ND<2.0
3/12/03	5,900	710	21	42	56	530	210	28	480	ND<1.0	ND<1.0	ND<1.0	ND<2.0
4/17/03	4,200	250	15	30	53	500	110	18	340	ND<1.0	ND<1.0	ND<1.0	ND<2.0
5/14/03	1,300	110	3.1	2.1	12	57	52	6.8	140	ND<1.0	ND<1.0	ND<1.0	ND<2.0
6/10/03	2,600	150	14	2.5	23	92	1,500	110	1,900	ND<1.0	ND<1.0	ND<1.0	ND<2.0
7/16/03	4,900	180	8.1	3.2	27	106	490	43	620	ND<1.0	ND<1.0	ND<1.0	ND<2.0
8/15/03	3,300	---	62	51.0	42	164	1,900	220	1,200	ND<1.0	ND<1.0	ND<1.0	ND<2.0
9/16/03	4,600	---	130	140	50	233	1,200	190	440	ND<1.0	ND<1.0	ND<1.0	---
10/15/03	3,600	---	69	85	17	158	720	230	260	ND<1.0	ND<1.0	ND<1.0	---
11/19/03	2,700	---	27	39	10	90	530	75	170	ND<1.0	ND<1.0	ND<1.0	---
12/11/03	3,600	180	49	160	39	272	ND<150	30	57	ND<1.0	ND<1.0	ND<1.0	---
1/14/04	4,300	160	35	160	66	540	48	18	ND<70	ND<1.0	ND<1.0	ND<1.0	---
2/9/2004	3,700	160	7	25	18	200	61	14	250	ND<1.0	ND<1.0	ND<1.0	---
3/10/04	2,100	93	3.7	18	12	127	28	6.7	50	ND<1.0	ND<1.0	ND<1.0	---
4/14/04	4,300	150	18	52	45	300	96	29	120	ND<1.0	ND<1.0	ND<1.0	---
5/13/04	3,200	190	11	39	36	269	62	17	67	ND<1.0	ND<1.0	ND<1.0	---
6/24/04	2,300	280	27	45	30	262	440	100	1,200	ND<1.0	ND<1.0	ND<1.0	---
7/27/04	3,400	220	53	39	30	203	720	140	1,400	ND<1.0	ND<1.0	ND<1.0	---
9/21/04	2,700	---	70	73	43	277	180	58	ND<10	ND<1.0	ND<1.0	ND<1.0	---
10/19/04	3,600	1,200	74	59	43	620	71	35	ND<10	ND<1.0	ND<1.0	ND<1.0	---
2/16/05	4,100	410	24	18	52	440	200	77	1,300	ND<1.0	ND<1.0	ND<1.0	---
3/15/05	5,300	570	20	21	83	920	320	85	800	ND<1.0	ND<1.0	ND<1.0	---
5/12/05	3,300	130	5.3	10	16	212	ND<10	3.0	ND<25	ND<1.0	ND<1.0	ND<1.0	---
8/9/05	2,800	240	3.5	6.7	24	297	40	15	280	ND<1.0	ND<1.0	ND<1.0	---
8/18/05	4,200	360	2.7	4.2	25	194	55	18	280	ND<1.0	ND<1.0	ND<1.0	---
11/15/05	2,200	220	2.3	3.6	7.0	90	ND<15	3.1	ND<40	ND<1.0	ND<1.0	ND<1.0	---
2/14/06	1,700	82	ND<0.50	0.96	4.7	52	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PFP, LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. 17TDN#026

PARGS	Date	Contaminants of Concern						Fuel Oxygenates					
		TPhleg	TPhlat	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TAME	TBA	ETBE	DPE	TBF
MW-6	12/11/02	12,500	500	500	300	300	300	300	300	300	300	300	300
Baseline Data	11/11/02	18,000	260	160	690	480	3,070	3,200	420	ND<200	ND<20	ND<20	---
11/27/02	2,400	ND<50	2.3	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,800	260	610	16	ND<10	ND<10
12/10/02	6,800	ND<50	18	37	28	650	650	2,500	320	420	ND<5.0	ND<10	ND<10
12/23/02	2,300	84	2.7	5.5	2.9	121	580	82	78	ND<1.0	ND<1.0	ND<2.0	ND<2.0
1/9/03	2,900	190	1.6	3.9	1.4	81	790	97	470	ND<1.0	ND<1.0	ND<1.0	---
1/30/03	1,900	81	1.5	3.4	3.4	87	1,000	130	290	ND<1.0	ND<1.0	ND<2.0	ND<2.0
2/12/03	1,300	56	1.5	1.7	ND<0.50	49	700	65	220	ND<1.0	ND<1.0	ND<2.0	ND<2.0
3/12/03	210	ND<50	ND<0.50	ND<0.50	ND<0.50	7.2	84	11	47	ND<1.0	ND<1.0	ND<2.0	ND<2.0
4/17/03	510	58	ND<0.50	1.5	2.2	36	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
5/4/03	510	ND<20	ND<0.50	1.4	ND<5.0	15.5	ND<5.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
6/10/03	1,100	98	0.6	3.2	ND<5.0	25.3	ND<5.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
7/16/03	430	ND<50	ND<0.50	1.1	ND<5.0	17.2	5.2	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
8/15/03	280	ND<50	ND<0.50	0.8	ND<5.0	12.0	ND<5.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
9/16/03	150	ND<50	ND<0.50	ND<5.0	ND<5.0	2.5	4.1	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
10/15/03	370	ND<50	ND<0.50	0.57	ND<5.0	3.2	ND<10	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
11/19/03	150	ND<50	ND<0.50	ND<5.0	ND<5.0	1.4	ND<10	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
12/11/03	470	ND<50	ND<0.50	0.78	0.52	8.7	ND<5.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
1/14/03	650	ND<50	ND<0.50	0.52	ND<5.0	8.0	ND<3.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
2/9/04	560	53	ND<50	ND<0.50	ND<5.0	5.4	ND<8.0	1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
3/10/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
4/14/04	240	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.51	1.9	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
5/13/04	370	ND<50	ND<0.50	ND<0.50	ND<0.51	1.4	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
6/24/04	83	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
7/27/04	130	ND<50	ND<0.50	ND<0.50	ND<0.50	1.51	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
9/21/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
10/19/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
2/16/05	260	ND<50	ND<0.50	ND<0.50	ND<0.50	0.54	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
5/12/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
8/9/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
11/15/05	80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0
2/14/06	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PIP-LACO Project No. 5282-02

1006 N. Highway 101, Crescent City, CA, Case No. 11TDN026

PARGS	Date	Contaminants of Concern						Fuel Oxygenates					
		TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TAME	TBA	ETBE	DIPE	TBF
OW-5	12,500	500	500	300	300	300	300	300	300	300	300	300	300
11/12/2002	---	---	---	---	---	---	---	---	---	---	---	---	---
1/9/2003	390	77	3.5	1.0	1.7	3.5	1.50	20	82	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1/30/2003	3,000	230	4.7	ND<0.50	0.56	0.63	4,400	730	210	1.4	ND<1.0	ND<2.0	ND<2.0
2/12/2003	2,200	ND<50	ND<0.50	ND<0.50	0.76	ND<0.50	4,400	730	210	1.4	ND<1.0	ND<2.0	ND<2.0
3/12/2003	1,000	120	ND<0.50	ND<0.50	0.94	ND<0.50	1,900	99	22	ND<1.0	ND<1.0	ND<4.0	ND<4.0
4/17/2003	800	91	8.6	ND<0.50	1.5	2.0	1,100	98	35	ND<1.0	ND<1.0	ND<2.0	ND<2.0
5/14/2003	210	56	2.5	ND<0.50	1.7	1.3	440	27	ND>20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
6/10/2003	450	ND<50	11	ND<0.50	1.5	ND<0.50	330	25	39	ND<1.0	ND<1.0	ND<2.0	ND<2.0
7/16/2003	170	ND<50	2.7	ND<0.50	2.4	ND<0.50	95	7.4	36	ND<1.0	ND<1.0	ND<2.0	ND<2.0
8/15/2003	210	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	14	140	ND<1.0	ND<1.0	ND<2.0	ND<2.0
9/16/03	---	---	---	---	---	---	---	---	---	---	---	---	---
10/15/03	---	---	---	---	---	---	---	---	---	---	---	---	---
11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---
12/11/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	6.7	ND<1.0	ND>20	ND<1.0	ND<1.0	ND<1.0
1/14/04	52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	64	1.5	ND>20	ND<1.0	ND<1.0	ND<1.0
2/9/2004	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	1.4	ND<1.0	ND>20	ND<1.0	ND<1.0	ND<1.0
3/10/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
4/14/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	1.4	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
5/13/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
6/24/04	ND<50	ND<50	0.60	ND<0.50	ND<0.50	ND<0.5	ND<0.5	5.5	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
7/27/04	ND<50	ND<50	0.65	ND<0.50	ND<0.50	ND<0.5	ND<0.5	18	2.2	68	ND<1.0	ND<1.0	ND<1.0
9/21/04	---	---	---	---	---	dry well	---	---	---	---	---	---	---
10/19/04	62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	4.3	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
2/16/05	ND<50	0.51	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	4.7	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
3/15/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	2.5	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
5/12/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
8/9/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	23	2.5	ND<10	ND<1.0	ND<1.0	ND<1.0
11/15/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.5	ND<0.5	3.4	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0
2/14/06	69	ND<50	ND<0.50	ND<0.50	0.51	ND<0.50	ND<0.5	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0

TABLE I: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PFP; LACO Project No. 5282-02
1006 N. Highway 101, Crescent City, CA, Case No. 1FTDN026

PARGS	Date	Contaminants of Concern						MTBE	TAME	TBA	ETBE	DME	TBK	
		TPhg	TPhd	Benzene	Toluene	Ethylbenzene	Total Xylenes							---
MW-7	11/12/02	5,600	160	83	ND<0.50	14	130	5,800	550	200	ND<10	ND<10	---	---
Baseline Data														---
11/27/02	1,900	ND<50	0.90	ND<0.50	0.91	3.1	3,000	220	380	6.2	ND<1.0	ND<20		
12/10/02	1,600	ND<50	28	ND<2.5	7.0	ND<2.5	3,700	180	360	5.6	ND<5.0	ND<10		
12/23/02	2,900	ND<50	0.58	ND<5.0	0.9	0.6	6,000	350	750	6.1	ND<1.0	ND<10		
1/9/03	3,200	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6,700	330	1,000	6.7	ND<1.0			
1/30/03	3,000	ND<50	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5,400	270	2,000	6.7	ND<5.0	2.9		
2/12/03	3,100	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,300	84	200	5.3	ND<5.0	ND<2.0		
3/12/03	1,000	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2,000	ND<1.0	31	2.7	ND<1.0	ND<2.0		
4/17/03	590	ND<50	2.1	ND<0.50	ND<0.50	ND<0.50	3.1	860	47	ND<20	2.0	ND<1.0	ND<2.0	
5/14/03	450	ND<50	1.4	ND<0.50	0.53	0.82	1,500	79	ND<20	2.6	ND<1.0	ND<2.0		
6/10/03	200	ND<50	0.54	ND<0.50	ND<0.50	ND<0.50	190	11	ND<20	ND<1.0	ND<1.0	ND<2.0		
7/16/03	87	ND<50	1.6	ND<0.50	ND<0.50	ND<0.50	97	5	ND<20	ND<1.0	ND<1.0	ND<2.0		
8/15/03	130	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	170	10	ND<20	ND<1.0	ND<1.0	ND<2.0		
9/16/03	140	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	89	4.7	ND<20	ND<1.0	ND<1.0	ND<2.0		
10/15/03	230	ND<50	2.2	ND<0.50	0.5	ND<0.50	170	13	ND<20	ND<1.0	ND<1.0	ND<2.0		
11/19/03	61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28	1.7	ND<20	ND<1.0	ND<1.0	ND<2.0		
12/11/03	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	42	2.9	ND<20	ND<1.0	ND<1.0	ND<2.0		
1/14/04	52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	62	4.3	ND<20	ND<1.0	ND<1.0	ND<2.0		
2/9/04	81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	51	3.5	ND<20	ND<1.0	ND<1.0	ND<2.0		
3/10/04	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	46	2.4	ND<20	ND<1.0	ND<1.0	ND<2.0		
4/14/04	55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	35	2.7	ND<20	ND<1.0	ND<1.0	ND<2.0		
5/13/04	88	ND<50	1.4	ND<0.50	ND<0.50	ND<0.50	95	6.7	ND<10	ND<1.0	ND<1.0	ND<2.0		
6/24/04	180	ND<50	0.63	ND<0.50	ND<0.50	ND<0.50	190	18	ND<10	ND<1.0	ND<1.0	ND<2.0		
7/27/04	120	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	11	ND<10	ND<1.0	ND<1.0	ND<2.0		
9/21/04	270	ND<50	0.54	ND<0.50	ND<0.50	ND<0.50	280	38	ND<10	ND<1.0	ND<1.0	ND<2.0		
10/19/04	65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	90	7.0	ND<10	ND<1.0	ND<1.0	ND<2.0		
2/16/05	250	ND<50	1.6	ND<0.50	ND<0.50	ND<0.50	240	38	210	ND<1.0	ND<1.0	ND<2.0		
5/12/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.2	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<2.0		
8/9/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	1.6	ND<10	ND<1.0	ND<1.0	ND<2.0		
11/15/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	19	2.0	ND<10	ND<1.0	ND<1.0	ND<2.0		
2/14/06	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	ND<10	ND<10	ND<1.0	ND<1.0	ND<2.0		

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS

Crescent City Shell PFP, LACO Project No. 5282-02

1006 N. Highway 101, Crescent City, CA; Case No. 11TDN#26

PARGS OW-4	Date	Contaminants of Concern						Fuel Oxygenates					
		TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TAME	TBA	ETBA	DPE	TBF
Baseline Data	10/9/02	18,000	... 500	250	88	2,500	479	220	52	ND<100	ND<10	ND<10	---
12/23/02	560	ND<50	ND<0.50	29	22	260	11	ND<100	3	ND<1.0	ND<2.0	ND<1.0	---
1/9/03	2,800	590	7.6	4.0	83	86	150	19	310	1.4	ND<1.0	ND<1.0	---
1/30/03	190	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	130	3.9	1,100	1.5	ND<1.0	ND<2.0	ND<2.0
2/12/03	2,000	170	ND<0.50	ND<0.50	13	16	100	1.4	ND<20	1.1	ND<1.0	ND<2.0	ND<2.0
3/12/03	1,800	300	ND<0.50	ND<0.50	30	27	7.9	ND<1.0	72	ND<1.0	ND<1.0	ND<2.0	ND<2.0
4/17/03	2,200	390	ND<0.50	0.60	91	90	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
5/14/2003	290	ND<50	ND<0.50	ND<0.50	3.5	3.7	4.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
6/10/2003	6,400	1,600	0.88	2.8	160	182	ND<5.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
7/16/2003	1,900	170	ND<0.50	1.30	110	97	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
8/15/2003	560	... ---	ND<0.50	ND<0.50	47	16.98	ND<5.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<2.0	ND<2.0
9/16/03	---	---	---	---	---	---	---	---	---	---	---	---	---
10/15/03	---	---	---	---	---	---	---	---	---	---	---	---	---
11/19/03	---	---	---	---	---	---	---	---	---	---	---	---	---
12/11/03	1,600	270	6.2	0.99	51	38	ND<50	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	ND<2.0
1/14/04	2,000	110	ND<0.50	0.52	100	54	35	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	---
2/9/2004	2,500	190	ND<0.50	ND<0.50	83	61	ND<4.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	---
3/10/04	790	80	ND<0.50	ND<0.50	43	20	ND<1.0	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	---
4/14/04	4,700	370	ND<0.50	ND<0.50	160	124	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
5/13/04	1,500	ND<50	ND<0.50	ND<0.50	81	36	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
6/24/04	2,100	160	ND<0.50	1.2	94	47	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
7/27/04	2,100	150	ND<0.50	ND<0.50	100	47	2.3	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
9/21/04	---	---	---	---	---	---	---	---	---	---	---	---	---
10/19/04	500	180	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
2/16/05	4,100	580	3.5	ND<0.50	170	76.6	ND<1.0	ND<10	ND<10	ND<1.0	ND<1.0	ND<1.0	---
3/15/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
5/12/05	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
8/9/05	59	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
11/15/05	69	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---
2/14/06	640	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	---

TABLE 1: PERFORMANCE MONITORING SAMPLING RESULTS
Guanxi City, Shunde, JACO Project, 5080-03

Crescent City Shell PFP, LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Note: "—" indicates that an analyte was not sampled for.
ND indicates results below the laboratory detection limits.

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA, Case No. 1TDN026

Field Intrinsic Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (μmhos)	ORP (mV)	Dissolved Oxygen (mg/l)
MW1					
8/18/1999	15.7	6.22	820	-26	3.50
12/12/1999	16.2	6.99	800	-183	0.50
2/15/2000	15.0	6.68	870	-134	0.60
5/30/2000	15.6	6.78	730	-119	1.00
8/29/2000	18.8	6.82	770	115	1.00
11/8/2000	18.1	---	700	-105	3.20
2/7/2001	13.6	---	710	-79	---
4/24/2001	13.8	6.91	330	-90	0.60
8/8/2001	---	---	---	---	---
11/13/2001	---	---	790	-101	0.00
2/5/2002	Not sampled due to the presence of free product.				---
5/7/2002	Not sampled due to the presence of free product.				---
8/14/2002	Not sampled due to the presence of free product.				---
12/23/2002	---	---	---	-41	6.50
1/9/2003	---	---	---	7	7.30
1/30/2003	---	---	---	-43	12.63
2/12/2003	---	---	---	49	13.13
3/12/2003	13.6	7.24	315	25	8.00
4/17/2003	14.9	7.08	389	172	11.38
5/14/2003	15.3	7.23	303	75	11.18
6/10/2003	17.2	7.40	29	76	7.34
7/16/2003	18.5	7.80	71	101	10.30
8/15/2003	19.8	7.40	263	92	9.59
9/16/2003	18.7	7.26	321	60	10.09
10/15/2003	17.7	6.97	318	163	10.27
11/19/2003	16.2	6.70	542	-13	5.85
12/11/2003	15.6	7.83	392	135	6.62
1/14/2004	---	---	---	---	---
2/9/2004	13.8	6.59	404	52	11.42
3/10/2004	15.5	7.40	326	23	10.29
4/14/2004	13.8	7.60	455	47	7.93
5/13/2004	17.6	7.50	399	150	8.17
6/24/2004	18.7	7.12	420	86	7.28
7/27/2004	19.4	7.10	391	32	3.12
8/26/2004	20.1	7.80	395	-8	6.74
9/21/2004	19.5	7.40	365	-26	6.74
10/16/2004	17.2	7.40	342	24	6.86
2/16/2005	13.4	7.10	288	65	8.01
3/15/2005	15.2	7.42	389	-8	8.71
5/12/2005	16.0	7.10	505	157	7.53
8/9/2005	18.4	7.50	364	31	1.02
11/15/2005	16.5	7.10	496	-31	5.77
2/14/2006	13.2	7.40	530	364	8.61
MW2					
8/18/1999	14.5	6.32	280	160	4.40
12/12/1999	16.5	6.45	220	72	5.00
2/15/2000	14.0	6.50	120	57	5.10
5/30/2000	15.8	6.99	150	210	7.80
8/29/2000	18.4	6.76	230	210	2.30
11/8/2000	18.6	---	440	20	1.50
2/7/2001	13.4	---	100	270	---
4/24/2001	13.9	7.86	---	265	6.30
8/8/2001	---	---	---	---	---
11/13/2001	---	7.93	530	-55	0.00
2/5/2002	10.5	7.63	---	207	6.60
5/7/2002	---	6.80	123	11	6.10
8/14/2002	16.6	3.72	227	200	5.16
12/23/2002	---	---	---	14	4.20
1/9/2003	---	---	---	19	4.00
1/30/2003	---	---	---	8	2.62
2/12/2003	---	---	---	-12	5.12
3/12/2003	13.7	7.07	103	56	3.40

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PFP, LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Field Intrinsic Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (μ mos)	ORP (mV)	Dissolved Oxygen (mg/l)
MW2Cont'd					
4/17/2003	13.6	6.38	186	61	0.20
5/14/2003	14.4	7.10	170	47	0.57
6/10/2003	15.8	6.40	24	-1	0.00
7/16/2003	18.0	6.00	0	-10	0.29
8/15/2003	20.6	5.70	114	115	1.06
9/16/2003	18.8	6.86	243	52	0.62
10/15/2003	18.4	6.71	275	119	0.72
11/19/2003	16.9	5.90	278	-21	1.69
12/11/2003	14.1	7.38	192	169	2.40
1/14/2004	13.1	6.00	129	162	4.42
2/9/2004	12.5	6.40	114	153	4.89
3/10/2004	13.4	6.40	113	66	5.34
4/14/2004	13.5	6.90	142	79	5.59
5/13/2004	14.2	7.47	116	129	5.50
6/24/2004	18.5	5.80	160	143	1.85
7/27/2004	18.9	6.60	185	129	2.05
8/26/2004	20.2	6.30	179	123	2.99
9/21/2004	19.3	6.20	224	107	0.73
10/19/2004	18.1	6.30	225	130	6.86
2/16/2005	12.7	6.50	110	103	6.63
5/12/2005	15.3	6.65	120	121	7.28
8/9/2005	16.5	6.29	190	113	2.33
11/15/2005	17.7	6.20	217	94	4.61
2/14/2006	13.0	7.00	110	356	7.07
MW3					
8/18/1999	15.1	6.38	370	129	4.40
12/12/1999	17.2	6.34	260	86	3.60
2/15/2000	15.9	6.45	280	6	1.90
5/30/2000	16.2	6.55	270	141	2.80
8/29/2000	18.8	6.74	240	192	3.50
11/8/2000	18.8	---	310	47	4.10
2/7/2001	13.7	---	230	260	---
4/24/2001	14.2	7.26	---	313	3.40
8/8/2001	---	---	---	---	---
11/13/2001	---	8.21	230	20	0.00
2/5/2002	12.7	6.55	---	406	3.50
5/7/2002	---	6.72	257	16	4.60
8/14/2002	17.4	2.82	14	154	7.96
5/14/2003	14.9	7.12	250	73	5.06
7/21/2003	---	---	---	---	---
8/15/2003	21.7	6.00	175	149	5.79
11/19/2003	17.6	7.14	168	70	6.93
2/9/2004	12.7	6.44	286	81	3.94
5/13/2004	17.1	6.20	197	161	6.50
8/26/2004	21.6	6.4	146	83	5.44
10/19/2004	---	---	---	---	---
2/16/2005	---	---	---	---	---
5/12/2005	16.0	6.50	256	115	3.81
8/9/2005	20.1	6.90	159	48	5.79
11/15/2005	16.4	6.20	144	96	6.86
2/14/2006	13.9	7.20	185	42	2.72
MW4					
8/18/1999	15.5	6.31	650	53	3.90
12/12/1999	16.1	6.58	400	25	1.10
2/15/2000	15.0	6.45	300	83	2.30

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PFP, LACo Project No. 5282 02
 1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Field Intrinsic Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (μmhos)	ORP (mV)	Dissolved Oxygen (mg/l)
MW4 Cont'd					
5/30/2000	16.1	6.32	320	129	1.70
8/29/2000	18.1	6.98	530	-97	1.60
11/8/2000	18.1	---	570	-21	1.40
2/7/2001	15.0	---	510	-17	---
4/24/2001	13.4	6.94	---	189	1.10
8/8/2001	---	---	---	---	---
11/13/2001	---	7.47	554	-98	0.00
2/5/2002	12.7	5.72	---	31	3.90
5/7/2002	---	6.92	395	16	1.90
8/14/2002	16.1	3.50	326	79	2.50
12/23/2002	---	---	---	10	6.80
1/9/2003	---	---	---	-9	7.20
1/30/2003	---	---	---	-56	11.28
2/12/2003	---	---	---	63	11.53
3/12/2003	13.8	7.09	137	99	8.60
4/17/2003	15.2	6.81	211	216	10.17
5/14/2003	15.5	7.19	196	123	10.53
6/10/2003	16.8	6.40	17	103	3.61
7/16/2003	18.5	7.10	80	97	9.12
8/15/2003	20.7	6.90	392	113	8.41
9/16/2003	19.1	7.53	467	95	8.83
10/15/2003	17.5	6.95	387	171	9.93
11/19/2003	17.1	7.45	293	126	0.54
12/11/2003	15.0	7.58	277	167	1.75
1/14/2004	14.1	6.20	208	172	11.30
2/9/2004	13.2	6.70	272	71	11.78
3/10/2004	14.9	6.40	214	43	10.05
4/14/2004	14.1	6.80	277	83	9.21
5/13/2004	17.2	8.00	326	160	8.10
6/24/2004	18.7	6.83	322	138	4.80
7/27/2004	18.6	7.10	331	135	3.08
8/26/2004	20.7	7.10	294	117	5.91
9/21/2004	19.6	6.90	309	122	6.05
10/19/2004	17.6	6.80	279	168	6.89
2/16/2005	15.1	6.3	223	125	1.82
5/12/2005	15.3	6.5	336	190	6.53
8/9/2005	17.6	6.5	269	60	0.97
11/15/2005	19.2	6.2	454	126	5.02
2/14/2006	14.5	6.4	340	467	4.48
MW5					
12/13/2001	---	---	---	---	---
2/5/2002	11.6	7.27	---	472	3.50
5/7/2002	---	6.95	566	-47	1.90
8/14/2002	16.2	1.67	92	-18	3.05
12/23/2002	---	---	---	-1	6.20
1/9/2003	---	---	---	-31	8.10
1/30/2003	---	---	---	-43	12.43
2/12/2003	---	---	---	65	12.44
3/12/2003	13.1	7.10	293	81	11.00
4/17/2003	14.7	6.81	297	141	11.61
5/14/2003	14.9	7.16	269	64	11.70
6/10/2003	16.0	7.70	66	57	11.07
7/16/2003	17.4	7.80	19	111	11.03
7/21/2003	17.4	7.40	104	120	11.46
8/15/2003	19.0	7.10	68	67	10.44

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Field Intrinsic Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (μ mhos)	ORP (mV)	Dissolved Oxygen (mg/l)
MW5 Cont'd					
9/16/2003	17.7	7.04	242	58	10.53
10/15/2003	17.1	6.77	210	153	10.99
11/19/2003	16.4	7.41	181	124	10.01
12/11/2003	15.5	7.70	240	135	10.48
1/14/2004	---	---	---	---	---
2/9/2004	14.2	7.10	210	143	10.71
3/10/2004	15.4	6.90	220	36	11.98
4/14/2004	13.2	7.60	280	53	12.08
5/13/2004	17.1	7.92	260	99	8.88
6/24/2004	17.6	7.40	332	90	8.19
7/27/2004	18.3	7.50	277	76	6.73
8/26/2004	20.9	7.30	231	91	7.61
9/21/2004	18.7	7.40	240	91	8.21
10/19/2004	16.5	7.10	231	124	10.88
2/16/2005	14.9	7.00	213	76	11.41
3/15/2005	15.0	7.31	301	33	10.59
5/12/2005	15.6	7.10	328	161	9.23
8/9/2005	16.2	6.53	306	110	1.16
11/15/2005	17.0	7.10	368	79	10.28
2/14/2006	11.9	7.00	290	447	10.80
MW6					
12/23/2002	---	---	---	-38	3.00
1/9/2003	---	---	---	32	2.90
2/12/2003	---	---	---	-1	3.87
3/12/2003	---	---	---	-56	6.58
4/17/2003	13.4	7.13	344	22	6.50
5/14/2003	15.0	6.43	365	39	4.40
6/10/2003	17.6	6.70	219	190	3.50
7/16/2003	---	---	---	---	---
8/15/2003	20.4	6.30	36	144	1.32
9/16/2003	21.8	7.10	213	19	1.71
10/15/2003	18.6	7.52	253	-18	1.82
11/19/2003	17.2	6.80	225	-17	1.55
12/11/2003	17.7	7.52	189	97	0.92
1/14/2004	16.3	7.70	217	150	1.25
2/9/2004	---	---	---	---	---
3/10/2004	16.0	6.20	192	80	1.64
4/14/2004	15.7	6.00	167	27	0.92
5/13/2004	15.0	6.60	207	35	1.30
6/24/2004	18.4	6.00	196	13	1.54
7/27/2004	19.1	6.20	211	---	1.82
8/26/2004	19.7	6.70	196	5	2.15
9/21/2004	---	---	---	---	---
10/19/2004	17.9	6.80	180	55	1.60
2/16/2005	15.7	6.30	156	84	0.90
5/12/2005	17.3	6.47	180	91	0.94
8/9/2005	19.5	6.41	194	-53	0.21
11/15/2005	18.6	6.30	140	14	0.93
2/14/2006	14.9	7.00	126	96	0.61
MW7					
12/23/2002	---	---	---	-48	10.30
1/9/2003	---	---	---	-36	4.80
2/12/2003	---	---	---	-24	6.64
3/12/2003	---	---	---	8	7.81
4/17/2003	13.6	7.26	374	58	6.80
5/14/2003	15.2	6.89	425	99	9.40
6/10/2003	15.6	7.40	378	170	9.70
7/16/2003	16.3	7.30	9	151	9.42
8/15/2003	19.1	7.40	9	127	8.82
9/16/2003	19.5	7.40	262	112	8.47

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PPP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Field Intrinsic Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (µmhos)	ORP (mV)	Dissolved Oxygen (mg/l)
MW7 Cont'd					
10/15/2003	18.4	7.66	300	9	8.35
11/19/2003	16.4	6.96	291	35	8.16
12/1/2003	---	---	---	---	---
1/14/2004	15.1	7.77	310	139	8.24
2/9/2004	---	---	---	---	---
3/10/2004	14.1	7.30	255	151	9.12
4/14/2004	14.8	7.20	258	49	9.75
5/13/2004	13.9	7.40	321	38	9.82
6/24/2004	16.1	7.72	312	69	6.80
7/27/2004	17.4	6.93	299	---	0.58
8/26/2004	17.5	7.40	282	22	2.43
9/21/2004	19.9	7.19	328	147	4.13
10/16/2004	15.4	7.00	260	-6	3.77
2/16/2005	14.5	6.92	437	128	5.46
5/12/2005	15.7	7.20	288	86	7.77
8/9/2005	17.3	6.80	307	-41	0.41
11/15/2005	15.3	6.90	562	-81	7.35
2/14/2006	11.8	7.00	450	486	9.29
MW8					
12/23/2002	---	---	---	-31	8.30
1/9/2003	---	---	---	-30	8.80
1/30/2003	---	---	---	-52	12.17
2/12/2003	---	---	---	---	---
4/17/2003	14.0	7.19	309	66	7.10
5/14/2003	15.3	7.49	483	121	10.80
6/10/2003	16.3	8.00	444	162	10.60
7/16/2003	18.6	7.30	106	90	4.25
8/15/2003	19.8	7.90	128	38	8.87
9/16/2003	21.2	7.60	359	73	8.69
10/15/2003	20.5	7.81	439	47	8.83
11/19/2003	18.1	7.07	366	85	9.59
12/11/2003	16.5	7.10	433	41	1.54
1/14/2004	16.3	7.78	499	70	1.10
2/9/2004	---	---	---	---	---
3/10/2004	14.9	7.20	394	131	9.61
4/14/2004	15.3	7.40	483	33	10.12
5/13/2004	14.6	7.70	464	27	5.75
6/24/2004	16.8	7.10	403	148	5.67
7/27/2004	19.3	7.23	371	-11	1.25
8/26/2004	18.6	7.60	298	1	1.39
9/21/2004	---	---	---	---	---
10/16/2004	18.0	7.10	286	27	2.42
2/16/2005	14.5	7.26	426	20	1.98
5/12/2005	17.0	6.70	323	-5	0.68
8/9/2005	19.6	7.30	291	-65	0.25
8/18/2005	20.0	6.83	249	-37	0.22
11/15/2005	17.7	6.80	655	-81	0.53
2/14/2006	13.4	6.90	530	391	1.11

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PFP, LACo Project No. 5282.02
1006 N. Highway 101, Crescent City, CA, Case No. ITDN026

Field Intrinsic Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (μmhos)	ORP (mV)	Dissolved Oxygen (mg/l)
OW1					
2/5/2002					
5/7/2002	12.2	6.12	---	273	2.60
8/14/2002	---	6.79	569	82	2.80
5/14/2003	15.5	3.23	12	140	4.04
8/15/2003	15.3	6.20	309	260	8.60
11/19/2003	Not enough water for sample				
2/9/2004	---	---	---	---	---
5/13/2004	13.3	6.16	285	84	10.56
8/26/2004	17.1	5.90	253	224	7.86
10/19/2004	---	---	---	---	---
2/16/2005	14.6	6.49	394	167	8.70
5/12/2005	16.2	6.45	246	54	6.54
8/9/2005	17.8	7.00	187	-30	2.86
11/15/2005	17.9	6.10	166	89	5.13
2/14/2006	14.1	6.80	201	89	2.18
OW2					
2/5/2002					
5/7/2002	11.6	6.08	---	71	2.50
8/14/2002	---	6.79	550	80	2.80
5/14/2003	Not enough water for sample				
8/15/2003	15.7	6.40	379	232	3.70
11/19/2003	Not enough water for sample				
2/9/2004					
5/13/2004	14.7	6.1	256	185	8.20
8/26/2004	18.6	7.8	307	215	6.23
10/19/2004	---	---	---	---	---
2/16/2005	14.5	6.4	358	173	5.48
5/12/2005	16.7	6.5	240	119	5.76
8/9/2005	18.7	6.9	220	-19	5.12
11/15/2005	18.2	6.2	180	93	5.90
2/14/2006	14.3	7.0	222	91	5.57
OW3					
2/5/2002					
5/7/2002	12.7	6.21	---	-44	2.20
8/14/2002	---	6.88	826	-54	2.50
12/23/2002	Not enough water for sample				
1/9/2003	---	---	---	-50	4.10
1/30/2003	---	---	---	-9	2.80
2/12/2003	---	---	---	-18	4.15
3/12/2003	---	---	---	---	6.39
4/17/2003	14.4	7.04	369	9	3.90
5/14/2003	15.6	6.31	432	-10	4.30
6/10/2003	16.2	6.50	322	-12	3.00
7/16/2003	17.6	7.19	549	-3	3.60
8/15/2003	21.5	6.60	154	-19	4.46
11/19/2003	Not enough water for sample				
12/11/2003	---	---	---	---	---
1/14/2004	16.8	7.63	362	13	0.49
2/9/2004	---	---	---	---	---
3/10/2004	15.2	6.40	248	41	0.45
4/14/2004	15.7	6.10	250	-21	0.94
5/13/2004	15.6	6.80	376	-45	0.98
6/24/2004	19.1	6.20	331	---	0.38
7/27/2004	19.5	6.40	420	---	4.18
8/26/2004	20.0	7.00	417	---	1.02
9/21/2004	---	---	---	---	---
10/16/2004	---	---	---	---	---
2/16/2005	15.6	6.74	396	-54	0.41
3/15/2005	16.6	6.57	480	-67	0.49
5/12/2005	17.5	6.67	228	-36	1.21
8/9/2005	20.4	6.52	291	-88	1.03
11/15/2005	18.8	6.60	381	UR	0.42
2/14/2006	14.5	7.10	208	82	1.27

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PFP; LACO Project No. 5282 02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Field Intrinsic Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (μmhos)	ORP (mV)	Dissolved Oxygen (mg/l)
OW4					
2/5/2002					
5/7/2002	11.6	6.67	---	-115	2.30
8/14/2002	---	6.99	675	-69	2.00
12/23/2002	17.5	3.29	63	-30	1.44
1/9/2003	---	---	---	-19	7.00
1/30/2003	---	---	---	-13	5.50
2/12/2003	---	---	---	-59	10.66
3/12/2003	---	---	---	19	11.72
4/17/2003	13.8	7.27	361	55	6.10
5/14/2003	15.5	7.11	597	125	7.80
6/10/2003	17.1	7.80	227	117	7.40
7/16/2003	18.0	7.44	500	62	3.30
8/15/2003	21.2	7.40	166	-5	7.45
11/19/2003	Not enough water for sample				
12/11/2003	---	---	---	---	---
1/14/2004	---	---	---	---	---
2/9/2004	12.7	6.90	432	177	8.74
3/10/2004	13.8	6.90	370	137	6.19
4/14/2004	14.2	7.20	380	31	9.03
5/13/2004	14.1	7.20	448	8	0.95
6/24/2004	17.6	6.70	405	68	2.17
7/27/2004	19.8	7.13	369	-12	6.67
8/26/2004	---	---	---	---	---
9/21/2004	---	---	---	---	---
10/16/2004	---	---	---	---	---
2/16/2005	13.6	6.92	436	-17	0.47
3/15/2005	15.1	7.39	354	-72	1.19
5/12/2005	16.2	7.22	302	38	2.16
8/9/2005	17.9	7.50	277	-43	0.69
11/15/2005	17.6	6.70	256	-11	0.59
2/14/2006	13.6	7.10	540	339	0.39
OW5					
2/5/2002					
5/7/2002	11.1	7.03	---	16	2.60
8/14/2002	---	6.94	744	-82	2.30
1/9/2003	Sample not collected due to free product				
1/30/2003	---	---	---	-29	3.90
2/12/2003	---	---	---	-28	10.42
3/12/2003	---	---	---	-3	10.61
4/17/2003	13.9	7.29	267	35	4.70
5/14/2003	14.3	6.55	434	134	8.60
6/10/2003	16.0	6.80	416	135	6.20
7/16/2003	16.4	7.39	414	131	4.00
8/15/2003	18.3	6.60	13	151	5.91
11/19/2003	Not enough water for sample				
12/11/2003	---	---	---	---	---
2/9/2004	14.2	7.70	245	136	4.39
3/10/2004	13.5	6.80	386	152	5.73
4/14/2004	13.8	6.90	410	43	4.92
5/13/2004	13.9	7.10	461	43	3.82
6/24/2004	16.3	7.77	422	192	2.73
7/27/2004	17.1	6.40	349	146	1.28
8/26/2004	---	---	---	---	---
10/19/2004	---	---	---	---	---
2/16/2005	13.0	6.76	428	123	0.31
3/15/2005	14.8	6.92	354	-52	0.36
5/12/2005	15.5	7.21	298	40	0.38
8/9/2005	17.3	6.61	336	-53	0.49
11/15/2005	16.6	6.30	265	10	0.36
2/14/2006	12.2	7.10	600	519	0.26

TABLE 2: INTRINSICS ANALYSES MONITORING RESULTS

Crescent City Shell, PFP, LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Field Intrinsics Analyses					
WELL/ Sample Date	Temperature (Celsius)	pH	Conductivity (μmhos)	ORP (mV)	Dissolved Oxygen (mg/l)
PZ1					
11/20/2001					
2/5/2002	---	6.70	377	124	3.30
5/7/2002	12.2	6.40	---	267	4.30
8/14/2002	---	---	---	---	---
5/14/2003	---	---	---	---	---
7/16/2003	---	---	---	---	---
7/21/2003	19.5	6.00	70	160	5.13
11/19/2003	19.1	5.90	55	153	5.77
2/9/2004	15.7	6.00	357	78	6.09
5/13/2004	13.6	6.0	368	177	6.12
6/24/2004	17.1	7.74	314	149	5.15
8/26/2004	17.9	6.08	263	71	4.27
10/19/2004	---	---	---	---	---
2/16/2005	22.0	6.2	231	104	4.33
5/12/2005	15.9	6.0	283	212	3.79
8/9/2005	19.3	6.6	191	69	3.28
11/15/2005	17.1	6.0	187	103	4.01
2/14/2006	11.8	6.9	219	87	4.96
DW-Totem					
8/18/1999					
12/12/1999	14.0	6.74	180	175	5.00
2/15/2000	13.1	6.31	200	91	15.10
5/30/2000	12.1	6.47	160	123	1.60
8/29/2000	13.7	6.65	190	-42	2.30
11/8/2000	14.6	7.67	170	2	2.00
2/7/2001	15.9	---	150	188	3.00
4/24/2001	12.7	---	140	129	---
8/8/2001	12.2	8.32	---	42	1.90
11/13/2001	---	---	---	---	---
2/5/2002	---	---	---	---	---
5/7/2002	9.4	7.74	---	-547	4.50
8/14/2002	---	6.76	217	-89	2.30
5/14/2003	Sample not collected		---	---	---
11/19/2003	12.0	7.20	160	14	0.03
2/9/2004	14.0	6.60	164	-37	0.15
5/13/2004	9.7	7.0	66	122	1.26
8/26/2004	12.2	6.5	187	-36	0.70
10/19/2004	---	---	---	---	---
2/16/2005	---	---	---	---	---
5/12/2005	13.3	6.64	169	-29	0.26
8/9/2005	17.7	6.69	157	58	0.13
11/15/2005	14.5	6.50	121	91	0.66
2/14/2006	10.7	7.60	125	2	0.57

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Groundwater Measurements				Analytical Results						Other Analytes ($\mu\text{g/l}$)
	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	
	mcf/(a)	tot	5	---	1.0	---	1.0	150	700	1,700	13
MW-1 Screened Interval 5-15 feet bgs											
3/20/1995	28.28	26.13	2.15	8,100	ND <50	ND <500	27	85	58	299	---
4/13/1995	25.72	2.56	---	---	---	---	---	---	---	---	---
5/15/1995	24.62	3.66	---	---	---	---	---	---	---	---	---
6/13/1995	23.38	4.90	77,000	170	ND <500	4,600	4,600	1,400	6,700	---	---
7/17/1995	22.38	5.90	---	---	---	---	---	---	---	---	---
9/1/1995	21.38	6.90	---	---	---	---	---	---	---	---	---
9/25/1995	20.85	7.43	80,000	740	---	9,700	8,800	2,000	9,600	10,000	---
10/30/1995	19.75	8.53	---	---	---	---	---	---	---	---	---
11/20/1995	19.25	9.03	---	---	---	---	---	---	---	---	---
12/21/1995	18.18	10.10	46,000	130	---	4,300	3,400	1,100	3,850	4,400	---
1/18/1996	25.32	2.96	---	---	---	---	---	---	---	---	---
2/20/1996	25.90	2.38	---	---	---	---	---	---	---	---	---
3/26/1996	24.98	3.30	8,300	ND <50	---	1,500	240	330	680	7,200	---
4/15/1996	24.84	3.44	---	---	---	---	---	---	---	---	---
6/7/1996	23.94	4.34	---	---	---	---	---	---	---	---	---
6/28/1996	22.84	5.44	48,000	150	---	7,500	6,200	1,500	6,800	14,000	---
7/17/1996	22.12	6.16	---	---	---	---	---	---	---	---	---
9/13/1996	20.44	7.84	58,000	2,600	---	11,000	7,900	1,600	7,400	11,000	---
10/9/1996	19.94	8.34	---	---	---	---	---	---	---	---	---
11/27/1996	22.67	5.61	---	---	---	---	---	---	---	---	---
12/23/1996	25.37	2.91	29,000	230	---	9,200	1,200	1,800	2,300	19,000	---
1/30/1997	25.67	2.61	---	---	---	---	---	---	---	---	---
2/21/1997	25.27	3.01	---	---	---	---	---	---	---	---	---
3/20/1997	24.67	3.61	15,000	ND <50	---	1,100	1,000	540	2,240	9,200	---
4/16/1997	23.57	4.71	---	---	---	---	---	---	---	---	---
6/25/1997	22.35	5.93	56,000	93	---	8,700	6,900	1,700	7,000	8,100	---
7/11/1997	20.78	7.50	---	---	---	---	---	---	---	---	---
9/11/1997	20.12	8.16	61,000	310	---	8,000	5,200	2,100	9,500	8,800	---
12/15/1997	23.89	4.39	31,000	590	---	1,300	1,200	790	3,090	14,000	---
3/5/1998	25.77	2.51	24,000	280	---	4,100	120	1,300	555	8,100	---

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1000 N. Highway 101, Crescent City, CA, Case No. 1TDN026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet) (feet)	TPH ^a ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW-1 Continued												
6/17/1998	23.01	5.27	68,000	390	—	6,500	6,200	1,500	6,800	19,000	—	
9/28/1998	19.93	8.35	65,000	860	—	7,100	5,300	2,500	9,300	26,000	—	
12/18/1998	25.10	3.18	18,000	300	—	3,100	180	920	1,280	33,000	TAME = 2,200 Other oxygenates ND Lead scavengers <200	
3/5/1999	25.65	2.63	290,000	300	—	1,200	ND < 10	380	450	30,000	—	
6/6/1999	23.40	4.88	54,000	320	—	2,800	3,100	1,300	4,760	32,000	—	
8/18/1999	20.80	7.48	88,000	440	—	6,100	6,700	3,200	11,900	36,000	TAME = 2,500 Other oxygenates ND	
12/12/1999	23.61	4.67	6,700	330	—	160	54	390	660	6,800	TAME = 750 Other oxygenates ND	
2/15/2000	25.49	2.79	12,000	290	—	970	100	570	615	11,000	TAME = 1,100 TBA = 1,100 Other oxygenates ND	
5/30/2000	23.77	4.51	29,000	280	—	850	860	1,500	4,130	6,200	TAME = 1300 Other oxygenates ND	
8/29/2000	20.70	7.58	42,000	740	—	3,600	2,200	2,100	6,900	7,400	TAME = 1,500 Other oxygenates ND	
11/8/2000	20.40	7.88	28,000	370	—	1,800	700	1,600	5,010	2,100	TAME = 790 Other oxygenates ND	
2/7/2001	22.13	6.15	44,000	1,300	—	3,300	950	2,300	5,260	3,900	TAME = 830 Other oxygenates ND	
4/24/2001	22.35	5.93	29,000	1,300	—	2,800	1,100	2,600	6,340	2,300	TAME = 470 Other oxygenates ND	
8/8/2001	19.91	8.37	47,000	1,200	—	3,700	1,000	2,700	5,790	3,900	TAME = 650 TBA = 1,200 Other oxygenates ND	
11/13/2001	17.36	10.92	81,000	2,300	—	2,000	9,900	2,900	15,100	2,000	TAME = 370 TBA = 890 Other oxygenates ND	
2/5/2002	24.16	4.16	Unable to sample due to presence of free product (0.05 foot thick)							TAME = 98 TBA = 1,100 Other oxygenates ND		
5/7/2002	23.84	4.50	Unable to sample due to presence of free product (0.07 foot thick)							TAME = 57 TBA = 460 ETBE = 1.4 Other oxygenates ND		
8/14/2002	31.29	—	Unable to sample due to presence of free product (0.32 foot thick)							TAME = 242 TBA = 740 Other oxygenates ND		
11/12/2002	23.75	7.54	7,000	490	—	58	ND < 25	ND < 25	242	1,100	—	
11/26/02	22.11	9.18	870	970	370	ND < 0.50	ND < 0.50	2.0	2.0	740	—	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N Highway 101, Crescent City, CA; Case No. 1TDN026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW 1 Continued												
12/10/02	21.52	9.77	4,800	560	--	8.2	2.8	75	66.4	690	TAME = 32 TBA = 430 Other oxygenates ND	
12/23/02	25.84	5.45	3,100	62	--	11	4.9	63	87.7	540	TAME = 43 ETBEE = 1.2 Other oxygenates ND	
1/9/03	27.62	3.67	780	160	--	1.7	1.1	8.6	17.8	540	TAME = 53 TBA = 42 Other oxygenates ND	
1/30/03	27.92	3.37	200	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	310	TAME = 18 other oxygenates ND	
3/12/03	26.90	4.39	100	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	160	TAME = 8.8 other oxygenates ND	
4/17/03	28.11	3.18	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	42	All other oxygenates ND	
5/14/03	26.71	4.58	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	10	All other oxygenates ND	
6/10/03	26.27	5.02	1,200	380	--	15	4.4	16	184	72	TAME = 17 TBA = 26 Other oxygenates ND	
7/16/03	24.17	7.12	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All other oxygenates ND	
8/15/03	23.06	8.23	ND<50	ND<50	--	ND>0.50	ND<0.50	1.3	1.1	ND<1.0	All other oxygenates ND	
9/16/03	21.86	9.43	ND<50	ND<50	--	ND>0.50	ND<0.50	0.5	1.1	ND<1.0	All other oxygenates ND	
10/15/03	21.08	10.21	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All other oxygenates ND	
11/19/03	22.88	8.41	2,200	140	--	110	11	18	95	75	TAME = 18 TBA = 45 Other oxygenates ND	
12/11/03	25.50	5.79	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	1.1	All other oxygenates ND	
1/14/04	27.49	3.80	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	1.5	All other oxygenates ND	
2/9/04	27.67	3.62	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	4.9	All other oxygenates ND	
3/10/04	27.57	3.72	ND<50	ND<50	--	ND>0.50	ND<0.50	ND<0.50	ND<0.50	1.6	All other oxygenates ND	
4/14/04	26.93	4.36	ND<50	50	--	ND>0.50	ND<0.50	0.96	10.3	4.0	All other oxygenates ND	
5/13/04	26.35	4.94	ND<50	ND<50	--	ND>0.50	ND<0.50	0.64	1.4	4.3	All other oxygenates ND	
6/24/04	24.55	6.74	1,300	93	--	120	12	11	148	59	TAME = 31 TBA = 31 Other oxygenates ND	
7/27/04	23.93	7.36	4,900	380	--	440	69	91	530	72	TAME = 24 TBA = 46 Other oxygenates ND	
8/26/04	23.11	8.18	950	--	--	49	9.2	11	130	42	TAME = 9.1 Other oxygenates ND	
9/21/04	22.59	8.70	590	67	--	27	6.4	8.7	85	34	TAME = 9.4 Other oxygenates ND	
10/19/04	22.59	8.70	570	78	--	40	8.2	13	78	27	TAME = 5.2 Other oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5262.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1/TDN026

Groundwater Measurements										Analytical Results				
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHm ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)		
MW 1 Continued														
2/16/05	26.10	5.19	4,100	270	—	—	83	160	85	870	12	TAME = 5.8 Other oxygenates ND		
3/15/05	25.58	5.71	1,100	68	—	—	42	15	10	198	28	TAME = 8.7 Other oxygenates ND		
5/12/05	27.92	3.37	ND<50	ND<50	—	—	ND<50	ND<50	ND<50	1,44	ND<10	All oxygenates ND		
8/9/05	24.82	6.47	3,800	260	—	—	530	56	2.2	470	39	TAME = 44 Other oxygenates ND		
11/15/05	25.73	5.56	ND<50	ND<50	—	—	ND<50	ND<50	ND<50	ND<50	ND<10	All other ND		
2/14/06	27.92	3.37	ND<50	ND<50	—	—	ND<50	ND<50	ND<50	ND<50	ND<10	Chromium ND<10 All other ND		
MW 2														
3/20/1995	27.11	26.06	1.05	ND<50	ND<50	ND<500	ND<5	ND<5	ND<5	ND<5	—	—		
4/13/1995	24.54	2.57	—	—	—	—	—	—	—	—	—	—		
5/15/1995	24.04	3.07	—	—	—	—	—	—	—	—	—	—		
6/13/1995	22.61	4.50	220	ND<50	ND<500	2.5	1.5	1.0	4.5	—	—	—		
7/17/1995	21.66	5.45	—	—	—	—	—	—	—	—	—	—		
9/1/1995	20.66	6.45	—	—	—	—	—	—	—	—	—	—		
9/25/1995	20.13	6.98	530	ND<50	—	—	110	2.1	1.2	7.1	19	—		
10/30/1995	19.43	7.68	—	—	—	—	—	—	—	—	—	—		
11/20/1995	18.40	8.71	—	—	—	—	—	—	—	—	—	—		
12/21/1995	17.46	9.65	140	ND<50	—	—	0.63	ND<5	ND<5	0.53	ND<50	—		
1/18/1996	25.61	1.50	—	—	—	—	—	—	—	—	—	—		
2/20/1996	26.05	1.06	—	—	—	—	—	—	—	—	—	—		
3/26/1996	24.59	2.52	ND<50	ND<50	—	—	ND<5	ND<5	ND<5	ND<5	ND<50	—		
4/15/1996	24.49	2.62	—	—	—	—	—	—	—	—	—	—		
6/7/1996	23.31	3.80	—	—	—	—	—	—	—	—	—	—		
6/28/1996	22.03	5.08	150.0	ND<50	—	—	6.1	4.7	1.0	3.5	ND<50	—		
7/17/1996	21.33	5.78	—	—	—	—	—	—	—	—	—	—		
9/13/1996	19.93	7.18	860	58	—	—	260	13	3.8	17.3	73	—		
10/9/1996	19.49	7.62	—	—	—	—	—	—	—	—	—	—		
11/27/1996	22.69	4.42	—	—	—	—	—	—	—	—	—	—		
12/23/1996	25.61	1.50	66	ND<50	—	—	19	ND<5	ND<5	0.63	8.7	—		
1/30/1997	25.68	1.43	—	—	—	—	—	—	—	—	—	—		
2/21/1997	25.05	2.06	ND<50	ND<50	—	—	—	—	—	—	—	—		
3/20/1997	24.45	2.66	—	—	—	—	—	—	—	—	—	—		
4/16/1997	22.87	4.24	—	—	—	—	—	—	—	—	—	—		
6/25/1997	21.47	5.64	75	ND<50	—	—	10	2.1	ND<5	1.98	79	—		
7/11/1997	16.38	10.73	—	—	—	—	—	—	—	—	—	—		
9/11/1997	19.65	7.46	3,700	250	—	—	1,100	22	7.3	39	1,000	—		
12/15/1997	23.95	3.16	160	84	—	—	65	1.3	0.58	2.8	73	—		

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N Highway 101, Crescent City, CA; Case No. 1TDN026

Groundwater Measurements										Analytical Results			
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)	
MW-2 Continued feet bgs													
3/5/1998	25.83	1.28	ND <50	ND <50	---	2.3	ND <0.5	ND <0.5	ND <0.5	ND <0.5	5.6	---	
6/17/1998	22.29	4.82	ND <50	ND <50	---	0.67	ND <0.5	ND <0.5	ND <0.5	ND <0.5	11	---	
9/28/1998	19.61	7.50	860	110	---	180	6.2	1.4	6.1	960	---		
12/18/1998	25.19	1.92	ND <50	ND <50	---	5.0	ND <0.5	ND <0.5	ND <0.5	ND <0.5	61	---	
3/5/1999	25.73	1.38	360	ND <50	---	0.57	ND <0.5	ND <0.5	ND <0.5	ND <0.5	10	Other oxygenates ND Lead scavengers <200	
6/3/1999	22.72	4.39	ND <50	ND <50	---	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	8.0	---	
6/22/1999	21.85	5.26	---	---	---	---	---	---	---	---	---	---	
8/18/1999	20.35	6.76	610	ND <50	---	70	6.7	1.1	13.6	930	---		
12/12/1999	24.31	2.80	89	ND <50	---	24	ND <0.5	ND <0.5	1.3	46	Other oxygenates ND		
2/15/2000	25.91	1.20	ND <50	ND <50	---	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	5.2	Other oxygenates ND	
5/30/2000	23.41	3.70	ND <50	ND <50	---	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	5.7	Other oxygenates ND	
8/29/2000	20.37	6.74	900	ND <50	---	58	0.63	ND <0.5	3.1	950	TAME = 40 TBA = 130 ETBE = 3.6 DIPE ND <1.6		
11/8/2000	20.07	7.04	4,000	57	---	970	ND <10	ND <10	ND <10	ND <10	1700	Other oxygenates ND	
2/7/2001	22.00	5.11	67	ND <50	---	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	57	TAME = 2 Other oxygenates ND	
4/24/2001	22.05	5.06	ND <50	ND <50	---	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	18	Other oxygenates ND	
8/8/2001	19.69	7.42	2,100	78	---	920	3.5	ND <0.5	14	2,000	TAME = 71 TBA = 470 ETBE = 3.8 DIPE = 1.4		
11/13/2001	18.32	8.79	6,400	86	---	580	4.1	1.2	7.7	6,200	TAME = 280 TBA = 1900 ETBE = 5.4 Other oxygenates ND		
12/13/2001	23.94	3.17	---	---	---	---	---	---	---	---	---		
2/5/2002	25.21	1.90	ND <50	ND <50	---	1.5	ND <0.50	ND <0.50	ND <0.50	ND <0.50	25	TAME=1.2	
5/7/2002	22.61	4.50	ND <50	ND <50	ND <170	ND <50	ND <50	ND <50	ND <50	ND <50	25	TAME=1.3	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5382.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW 2 Continued												
8/14/2002	30.08	22.99	7.09	1,000	ND<50	ND<170	82	1.1	ND<0.50	1.6	450	TAME = 33 TBA = 54 Other oxygenates ND
11/12/2002	21.73	8.35	5,700	75	---	1,500	1.7	ND<0.50	5.0	3,500	TAME = 240 TBA = 770 ETB/E = 3.2 DPE = ND-10	
11/26/2002	21.61	8.47	5,000	92	ND<170	1,200	0.6	ND<0.50	2.4	3,300	TAME = 200 TBA = 850 ETB/E = 3.1 Other oxygenates ND	
12/10/2002	21.53	8.55	5,700	76	---	1,000	4.2	ND<0.50	5.3	3,100	TAME = 190 TBA = 600 Other oxygenates ND	
12/23/2002	26.83	3.25	430	ND<50	---	8.8	ND<0.50	0.61	0.82	90	TAME = 4.9 TBA = 600 Other oxygenates ND	
1/9/03	28.12	1.96	340	ND<50	---	1.3	ND<0.50	ND<0.50	ND<0.50	42	TAME = 2.7 TBA = 600 Other oxygenates ND	
1/30/03	29.65	0.43	470	ND<50	---	1.0	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND	
3/12/03	28.16	1.92	200	ND<50	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND	
4/17/03	29.17	0.91	200	ND<50	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND	
5/14/03	27.56	2.52	84	ND<30	---	1.1	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND	
6/10/03	25.84	4.24	77	ND<30	---	1.1	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND	
7/16/03	24.37	5.71	65	ND<50	---	1.1	ND<0.50	ND<0.50	0.58	3.9	All oxygenates ND	
8/15/03	23.54	6.54	84	ND<50	---	7.6	ND<0.50	ND<0.50	0.52	27	TAME = 1.4 TBA = 47 Other oxygenates ND	
9/16/03	22.84	7.24	650	ND<50	---	20	ND<0.50	0.63	2.16	390	TAME = 17 TBA = 47 Other oxygenates ND	
10/15/03	22.17	7.91	2,200	75	---	63	1.6	2.3	7.3	1,800	TAME = 95 TBA = 200 Other oxygenates ND	
11/19/03	22.35	7.73	1,200	ND<50	---	2.3	ND<0.50	ND<0.50	ND<0.50	1,200	TAME = 61 TBA = 47 Other oxygenates ND	
12/11/03	26.36	3.72	120	ND<50	---	3.0	ND<0.50	ND<0.50	ND<0.50	150	TAME = 8.8 TBA = 200 Other oxygenates ND	
1/14/04	28.69	1.39	ND<50	ND<30	---	ND<50	ND<0.50	ND<0.50	ND<0.50	36	TAME = 2.0 TBA = 200 Other oxygenates ND	
2/9/04	28.55	1.53	ND<50	ND<50	---	ND<50	ND<0.50	ND<0.50	ND<0.50	16	TAME = 1.1 TBA = 200 Other oxygenates ND	
3/10/04	27.78	2.30	ND<50	ND<50	---	ND<50	ND<0.50	ND<0.50	ND<0.50	9.2	All oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N Highway 101, Crescent City, CA; Case No. ITDN026

Groundwater Measurements				Analytical Results								
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPPhd ($\mu\text{g/l}$)	TPhmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW-2 Continued												
4/14/04	26.64	3.44	ND <50	ND <50	—	ND <50	ND <50	ND <50	ND <50	ND <50	10	All oxygentates ND
5/13/04	25.96	4.12	ND <50	ND <50	—	ND <50	ND <50	ND <50	ND <50	ND <50	6.8	All oxygentates ND
6/24/04	24.29	5.79	210	ND <50	—	ND <50	ND <50	ND <50	ND <50	ND <50	160	TAME = 14 Other oxygentates ND
7/27/04	23.78	6.30	160	ND <50	—	6.0	ND <50	ND <50	1.13	97	TAME = 6.1 Other oxygentates ND	
8/26/04	22.98	7.10	500	ND <50	—	84	ND <50	ND <50	ND <50	ND <50	350	Other oxygentates ND TAME = 24 TBA = 63
9/21/04	22.49	7.59	930	ND <50	—	94	ND <50	ND <50	0.65	620	Other oxygentates ND TAME = 63 TBA = 68	
10/19/04	22.49	7.59	680	ND <50	—	26	ND <50	ND <50	ND <50	ND <50	680	Other oxygentates ND TAME = 77
2/16/05	25.81	4.27	ND <50	ND <50	—	ND <50	ND <50	ND <50	ND <50	ND <50	40	Other oxygentates ND TAME = 2.5
5/12/05	27.79	2.29	ND <50	ND <50	—	ND <50	ND <50	ND <50	ND <50	ND <50	4.4	Other oxygentates ND All oxygentates ND
8/9/05	23.92	6.16	330	ND <50	—	ND <50	ND <50	ND <50	ND <50	ND <50	260	Other oxygentates ND TAME = 30
1/15/05	26.67	3.41	160	ND <50	—	20	ND <50	ND <50	ND <50	ND <50	96	Other oxygentates ND TAME = 8.4
2/14/06	27.62	2.46	ND <50	55	—	ND <50	ND <50	ND <50	ND <50	ND <50	7.8	All oxygentates ND Chromium = 28
MW-3 Screened Interval 5-15 feet bgs												
3/20/1995	28.99	26.89	2.10	ND <50	ND <50	ND <50	ND <50	ND <50	ND <50	ND <50	—	
4/13/1995	27.61	1.38	—	—	—	—	—	—	—	—	—	
5/15/1995	25.12	3.87	—	—	—	—	—	—	—	—	—	
6/13/1995	23.95	5.04	ND <50	ND <50	ND <50	1.4	1.7	ND <5	0.76	—	—	
7/17/1995	22.93	6.06	—	—	—	—	—	—	—	—	—	
9/1/1995	21.93	7.06	—	—	—	—	—	—	—	—	—	
9/25/1995	21.07	7.92	ND <50	—	—	—	—	—	—	—	—	
10/30/1995	19.86	9.13	—	—	—	—	—	—	—	—	—	
11/20/1995	19.26	9.73	—	—	—	—	—	—	—	—	—	
12/21/1995	18.69	10.30	ND <50	—	—	ND <5	ND <5	ND <5	ND <5	ND <5	—	
1/18/1996	26.27	2.72	—	—	—	—	—	—	—	—	—	
2/20/1996	26.67	2.32	—	—	—	—	—	—	—	—	—	
3/26/1996	25.49	3.50	ND <50	—	—	ND <5	ND <5	ND <5	ND <5	ND <5	—	
4/15/1996	25.39	3.60	—	—	—	—	—	—	—	—	—	
6/7/1996	24.47	4.52	—	—	—	—	—	—	—	—	—	
6/28/1996	23.39	5.60	ND <50	—	—	ND <5	ND <5	ND <5	ND <5	ND <5	—	
7/17/1996	22.53	6.46	—	—	—	—	—	—	—	—	—	
9/13/1996	20.63	8.36	ND <50	—	—	2.6	2.5	0.55	2.08	ND <5	—	
10/9/1996	20.15	8.84	—	—	—	—	—	—	—	—	—	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PIP, LACO Project No. 5282-02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	Groundwater Measurements							Analytical Results			
				TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)		
MW-3 Continued														
1/1/27/1996	23.40	5.59	—	—	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	
12/23/1996	26.12	2.87	ND <50	ND <50	—	—	—	—	—	—	—	—	—	
1/30/1997	26.28	2.71	—	—	—	—	—	—	—	—	—	—	—	
2/21/1997	25.56	3.43	—	—	—	—	—	—	—	—	—	—	—	
3/20/1997	25.56	3.43	ND <50	ND <50	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	
4/16/1997	24.06	4.93	—	—	—	—	—	—	—	—	—	—	—	
6/25/1997	22.93	6.06	68	ND <50	—	8.3	7.8	1.6	—	—	5.7	ND <0.5	ND <0.5	
7/11/1997	21.13	7.86	—	—	—	—	—	—	—	—	—	—	—	
9/11/1997	20.13	8.86	ND <50	ND <50	—	2.8	1.7	0.57	2.02	—	ND <0.5	ND <0.5	ND <0.5	
12/15/1997	24.42	4.57	ND <50	ND <50	—	1.3	1.2	0.76	2.52	—	ND <0.5	ND <0.5	ND <0.5	
3/5/1998	26.33	2.66	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
6/17/1998	23.56	5.43	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
9/28/1998	19.98	9.01	ND <50	ND <50	—	3.5	2.7	0.98	3.45	—	ND <0.5	ND <0.5	ND <0.5	
12/18/1998	25.61	3.38	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
3/5/1999	26.16	2.83	160	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
6/3/1999	23.96	5.03	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
6/22/1999	23.11	5.88	—	—	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	
8/18/1999	20.98	8.01	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
12/12/1999	24.38	4.61	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
2/15/2000	26.28	2.71	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
5/30/2000	24.37	4.62	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
8/29/2000	22.25	6.74	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
8/29/2000	Method Blank			ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5
8/29/2000	Field Duplicate			ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5
11/8/2000	20.84	8.15	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	0.61	ND <0.5	ND <0.5	
2/7/2001	22.47	6.52	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
4/24/2001	22.81	6.18	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
8/8/2001	19.96	9.03	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	0.61	ND <0.5	ND <0.5	
11/13/2001	18.69	10.30	ND <50	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	ND <0.5	ND <0.5	ND <0.5	
11/20/2001	20.13	8.86	—	—	—	—	—	—	—	—	—	ND <1.0	ND <1.0	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N Highway 101, Crescent City, CA; Case No. 1TDN026

Groundwater Measurements				Analytical Results								
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW-3 Continued												
12/13/2001	24.36	4.63	—	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
2/5/2002	25.78	3.21	ND <50	ND <50	ND <170	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
5/7/2002	23.79	5.20	56	ND <50	ND <50	ND <170	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
8/14/2002	31.99	8.54	ND <50	ND <50	ND <170	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
11/12/2002	22.51	9.48	ND <50	ND <50	ND <170	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
5/14/2003	27.85	4.14	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
7/16/03	—	—	—	—	—	—	—	—	—	—	—	
8/15/03	23.97	8.02	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
11/19/03	23.18	8.81	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
2/9/04	28.54	3.45	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
3/10/04	—	—	—	—	—	—	—	—	—	—	—	
4/14/04	—	—	—	—	—	—	—	—	—	—	—	
5/13/04	26.97	5.02	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
8/26/04	23.38	8.61	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
10/19/04	—	—	—	—	—	—	—	—	—	—	—	
2/16/05	26.48	5.51	ND <50	ND <50	ND <170	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
5/12/05	28.27	3.72	ND <50	ND <50	ND <170	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
8/9/05	24.87	7.12	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
11/15/05	26.84	5.15	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
2/14/06	27.89	4.10	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
MW-4 Screened Interval 4-14 feet bgs												
6/22/1999	28.21	22.34	5.87	ND <50	85	—	2.0	1.4	ND <0.5	11.1	6,000	
8/18/1999	20.79	7.42	850	ND <50	—	ND <20	ND <20	ND <0.5	ND <0.5	—	8,400	
12/12/1999	23.60	4.61	200	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	—	TAME = 72 TBA = 82	
2/15/2000	25.77	2.44	65	ND <50	—	0.57	ND <0.5	ND <0.5	ND <0.5	800	Other oxygenates ND	
5/30/2000	24.00	4.21	240	ND <50	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	190	Other oxygenates ND	
8/29/2000	20.73	7.48	1,700	130	—	64	53	25	145	470	TAME = 49 Other oxygenates ND	
11/8/2000	20.31	7.90	1,100	ND <50	—	3.4	5.2	33	65	910	TAME = 98 Other oxygenates ND	
2/7/2001	22.13	6.08	1,000	110	—	2.3	1.3	13	16.5	740	TBA = 240 TAME = 61 Other oxygenates ND	
4/24/2001	22.52	5.69	140	ND <50	—	ND <0.5	ND <0.5	0.61	4.2	220	TBA = 34 TAME = 14 Other oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5382.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Groundwater Measurements						Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW 4 Continued												
4/24/2001												
8/8/2001	20.08	8.13	930	ND <50	---	ND <5	ND <0.5	0.56	4.0	210	TAME = 14	
11/13/2001	18.81	9.40	330	ND <50	---	ND <5	ND <0.5	1.6	2.4	1,600	TBA = 490	
11/20/2001	19.84	8.37	---	---	---	---	---	---	---	---	Other oxygenates ND	
12/13/2001	23.83	4.38	---	---	---	---	---	---	---	---	Other oxygenates ND	
2/5/2002	24.53	3.68	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
5/7/2002	23.41	4.80	390	ND <50	ND <170	12	ND <0.50	ND <0.50	0.69	540	TBA = 97	
8/14/2002	31.21	23.55	7.66	410	ND <50	ND <170	ND <0.50	ND <0.50	ND <0.50	470	TAME = 42	
11/12/2002	21.75	9.46	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	66	TBA = 33	
11/26/2002	21.82	9.39	ND <50	ND <50	ND <170	1.3	ND <0.50	ND <0.50	ND <0.50	41	TAME = 41	
12/10/2002	21.90	9.31	ND <50	ND <50	---	0.76	ND <0.50	ND <0.50	ND <0.50	13	Other oxygenates ND	
12/23/2002	26.28	4.93	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	2.2	All oxygenates ND	
1/9/03	27.56	3.65	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
1/30/03	26.01	5.20	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND	
3/12/03	26.97	4.24	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.0	All oxygenates ND	
4/17/03	---	---	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.7	All oxygenates ND	
5/14/03	27.23	3.98	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	5.0	All oxygenates ND	
6/10/03	26.44	4.77	89	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	86	TAME = 1.2	
7/16/03	24.91	6.30	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	4.7	Other oxygenates ND	
8/15/03	23.71	7.50	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	11	All oxygenates ND	
9/16/03	22.92	8.29	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	4.1	All oxygenates ND	
10/15/03	21.94	9.27	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
11/19/03	23.08	8.13	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	12	All oxygenates ND	
12/11/03	25.81	5.40	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
1/14/04	28.18	3.03	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
2/9/04	28.16	3.05	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
3/10/04	27.91	3.30	ND <50	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.7	All oxygenates ND	
4/14/04	27.22	3.99	66	ND <50	---	ND <0.50	ND <0.50	ND <0.50	ND <0.50	6.6	All oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA, Case No. 1TDN026

WELL/ Sample Date	Groundwater Measurements				Analytical Results					
	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHm ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)
MW-4 Continued										
5/13/04	26.61	4.60	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
6/24/04	25.23	5.98	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
7/27/04	24.30	6.91	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
8/26/04	23.69	7.52	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
9/21/04	23.17	8.04	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
10/19/04	23.12	8.09	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
2/16/05	26.29	4.92	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
5/12/05	27.93	3.28	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
8/9/05	24.94	6.27	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
1/15/05	26.22	4.99	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
2/14/06	27.93	3.28	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
MW-5 Screened Interval 4-19 feet bgs										
12/13/2001	28.51	24.04	4.47	1,100	ND <50	ND <0.5	15	ND <0.5	1.0	0.63
2/5/2002	25.43	3.08	330	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
5/7/2002	23.53	4.98	7,100	120	ND <170	360	7.0	170	12.3	5,600
8/14/2002	31.50	23.24	8.26	25,000	ND <50	ND <170	200	ND <0.50	150	ND <0.50
11/12/2002	21.69	9.81	2,400	ND <50	ND <170	0.97	ND <0.50	ND <0.50	ND <0.50	ND <0.50
11/26/2002	22.11	9.39	2,400	ND <50	ND <170	2.3	ND <0.50	ND <0.50	ND <0.50	ND <0.50
12/10/2002	21.99	9.51	2,000	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
12/23/2002	26.21	5.29	1,100	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
1/9/03	27.91	3.59	240	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	Groundwater Measurements						Analytical Results			
				TPH _g ($\mu\text{g/l}$)	TPH _d ($\mu\text{g/l}$)	TPH _{m/o} ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)	
MW-5 Continued													
1/30/03	29.06	2.44	71	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
3/12/03	27.91	3.59	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
4/17/03	—	—	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
5/14/03	27.51	3.99	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
6/10/03	26.08	5.42	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
7/16/03	24.34	7.16	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
8/15/03	23.37	8.13	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
9/16/03	22.38	9.12	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
10/15/03	21.79	9.71	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
11/19/03	22.39	9.11	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
12/11/03	25.85	5.65	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
1/14/04	28.45	3.05	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
2/9/04	28.30	3.20	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
3/10/04	28.01	3.49	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
4/14/04	27.03	4.47	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
5/13/04	26.68	4.82	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
6/24/04	24.90	6.60	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.1	All oxygentes ND	
7/27/04	23.88	7.62	51	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	26	TAME = 2.9	
8/26/04	23.11	8.39	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	3.2	All oxygentes ND	
9/21/04	22.55	8.95	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.2	All oxygentes ND	
10/19/04	22.55	8.95	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
2/16/05	26.01	5.49	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	8.0	All oxygentes ND	
3/15/05	25.52	5.98	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	4.9	All oxygentes ND	
5/12/05	27.99	3.51	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
8/9/05	24.63	6.87	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	5.9	All oxygentes ND	
11/15/05	26.28	5.22	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND	
2/14/06	27.77	3.73	ND <50	ND <50	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygentes ND, Chromium ND <10	
MW-6 Screened Interval 10-14 feet bgs													
11/12/2002	31.72	21.86	9.86	18,000	260	--	160	690	430	3070	3,200	TAME =400 Other oxygentes ND	
11/26/2002	22.31	9.41	6,400	400	ND <170	30	97	83	660	1,800	1,800	TAME =260 TBA=150	
12/10/2002	22.01	9.71	6,800	ND <50	--	18	37	28.0	650	2,500	2,500	TAME =320 TBA=120	
12/23/2002	23.31	8.41	2,300	84	--	2.7	5.5	2.9	121	580	580	TAME =82 TBA=78	
												Other oxygentes ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 17TDN026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPPhd ($\mu\text{g/l}$)	TPPho ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW-6 Continued												
1/9/03	22.76	8.96	2,900	190	--	--	1.6	3.9	1.4	81	790	TAME=97 TBA=470 Other oxygenates ND
1/30/03	22.45	9.27	1,900	81	--	--	1.5	3.4	3.4	77	1,000	TAME =130 TBA=290 Other oxygenates ND
3/12/03	22.00	9.72	270	ND<50	--	--	ND<0.5	ND<0.5	ND<0.5	7.7	84	TAME =11 TBA=47 Other oxygenates ND
4/17/03	22.73	8.99	510	58	--	--	ND<0.50	1.5	2.2	36	ND<10	All oxygenates ND
5/14/03	27.41	4.31	510	ND<50	--	--	ND<0.50	1.4	ND<5.0	15.5	ND<5.0	All oxygenates ND
6/10/03	26.16	5.56	1,100	98	--	--	0.58	3.2	ND<5.0	25	ND<5.0	All oxygenates ND
7/16/03	24.75	6.97	430	ND<50	--	--	ND<0.50	1.1	ND<5.0	17.2	5.2	All oxygenates ND
8/15/03	23.80	7.92	280	ND<50	--	--	ND<0.50	0.78	ND<5.0	12	4.5	All oxygenates ND
9/16/03	22.79	8.93	150	ND<50	--	--	ND<0.50	ND<5.0	ND<5.0	2.5	4.1	All oxygenates ND
10/15/03	22.69	9.03	370	ND<50	--	--	ND<0.50	0.57	ND<5.0	3.2	ND<10	All oxygenates ND
11/19/03	22.71	9.01	150	ND<50	--	--	ND<0.50	ND<5.0	ND<5.0	1.4	ND<10	All oxygenates ND
12/11/03	25.01	6.71	470	ND<50	--	--	ND<0.50	0.78	0.52	8.7	ND<5.0	All oxygenates ND
1/14/04	28.10	3.62	650	ND<50	--	--	ND<0.50	ND<5.0	0.52	8.0	ND<3.0	All oxygenates ND
2/9/04	27.86	3.86	560	53	--	--	ND<0.50	ND<0.50	ND<0.50	5.4	ND<8.0	Tame=1.0 Other oxygenates ND
3/10/04	27.70	4.02	ND<50	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND
4/14/04	26.32	5.40	240	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	1.9	ND<1.0	All oxygenates ND
5/13/04	26.31	5.41	370	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	1.4	ND<1.0	All oxygenates ND
6/24/04	25.61	6.11	83	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	All oxygenates ND
7/27/04	23.17	8.55	130	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	1.51	ND<1.0	All oxygenates ND
8/26/04	21.70	10.02	ND<50	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND
9/21/04	22.47	9.25	ND<50	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND
10/19/04	22.47	9.25	ND<50	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.6	All oxygenates ND
2/16/05	25.66	6.06	260	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	0.54	ND<1.0	All oxygenates ND
5/12/05	26.67	5.05	ND<50	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	All oxygenates ND
8/9/05	24.61	7.11	ND<50	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND
11/15/05	26.26	5.46	80	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	All oxygenates ND ; Chromium ND<10
2/14/06	27.45	4.27	ND<50	ND<50	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	All oxygenates ND ; Chromium ND<10
MW-7 Screened Interval 10-15 feet bgs												
11/12/2002	31.86	20.90	10.96	5,600	160	--	83	ND<0.5	14	129.9	5,700	TAME=450 TBA=1,600 Other oxygenates ND
11/26/2002	22.40	9.46	1,900	ND<50	ND<70	0.90	ND<0.5	0.91	3.05	3,000	TAME =220 TBA=380 ETBE=6.2 Other oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Groundwater Measurements				Analytical Results						
	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)
MW-7 Continued											
12/10/2002	21.86	10.08	1,600	ND <50	...	28	ND <0.5	7.0	ND <0.5		TAME = 180 TBA = 360 ETBE = 5.6 Other oxygenates ND
12/23/2002	21.74	10.12	2,900	ND <50	...	0.58	ND <0.5	0.87	0.57		TAME = 350 TBA = 750 ETBE = 6.1 Other oxygenates ND
1/9/03	21.51	10.35	3,200	ND <50	...	ND <0.5	ND <0.5	ND <0.5	ND <0.5		TAME = 330 TBA = 1,000 ETBE = 6.7 Other oxygenates ND
1/30/03	21.78	10.08	3,000	ND <50	...	ND <0.25	ND <0.25	ND <0.25	ND <0.25		TAME = 270 TBA = 2,000 ETBE = 6.7 Other oxygenates ND
3/12/03	21.84	10.02	1,000	ND <50	...	ND <0.25	ND <0.25	ND <0.25	ND <0.25		TAME = 97 TBA = 31 ETBE = 2.7 Other oxygenates ND
4/17/03	27.67	4.19	590	ND <50	...	2.1	ND <0.50	ND <0.50	3.1		TAME = 47 TBA = 2.0 ETBE = 2.7 Other oxygenates ND
5/14/03	27.65	4.21	450	ND <50	...	1.4	ND <0.50	0.53	0.82		TAME = 79 TBA = 2.6 ETBE = 2.6 Other oxygenates ND
6/10/03	26.66	5.20	200	ND <50	...	0.54	ND <0.50	0.53	0.82		TAME = 11 TBA = 11 ETBE = 2.6 Other oxygenates ND
7/16/03	24.86	7.00	87	ND <50	...	1.6	ND <0.50	ND <0.50	ND <0.50		TAME = 4.6 TBA = 11 ETBE = 2.6 Other oxygenates ND
8/15/03	23.98	7.88	130	ND <50	...	ND <0.50	ND <0.50	ND <0.50	ND <0.50		TAME = 10 TBA = 10 ETBE = 2.6 Other oxygenates ND
9/16/03	23.13	8.73	140	ND <50	...	ND <0.50	ND <0.50	ND <0.50	ND <0.50		TAME = 4.7 TBA = 10 ETBE = 2.6 Other oxygenates ND
10/15/03	22.47	9.39	230	ND <50	...	2.2	ND <0.50	0.5	ND <0.50		TAME = 13 TBA = 13 ETBE = 2.6 Other oxygenates ND
11/19/03	22.11	9.75	61	ND <50	...	ND <0.50	ND <0.50	ND <0.50	ND <0.50		TAME = 1.7 TBA = 1.7 ETBE = 2.6 Other oxygenates ND

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Groundwater Measurements						Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethybenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW-7 Continued											
12/11/03	25.81	6.05	ND>50	ND<50	—	ND<50	ND<50	ND<50	ND<50	42	TAME = 2.9 Other oxygenates ND
1/14/04	28.61	3.25	52	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	62	TAME = 4.3 Other oxygenates ND
2/9/04	28.45	3.41	81	ND<50	—	ND<50	ND<50	ND<50	ND<50	51	TAME = 3.5 Other oxygenates ND
3/10/04	28.08	3.78	ND>50	ND<50	—	ND<50	ND<50	ND<50	ND<50	46	TAME = 2.4 Other oxygenates ND
4/14/04	27.25	4.61	55	ND<50	—	ND<50	ND<50	ND<50	ND<50	35	TAME = 2.7 Other oxygenates ND
5/13/04	26.96	4.90	88	ND<50	—	1.4	ND<50	ND<50	ND<50	95	TAME = 6.7 Other oxygenates ND
6/24/04	25.29	6.57	180	ND<50	—	0.63	ND<50	ND<50	ND<50	190	TAME = 18 Other oxygenates ND
7/27/04	24.28	7.58	120	ND<50	—	ND<50	ND<50	ND<50	ND<50	140	TAME = 11 Other oxygenates ND
8/26/04	23.49	8.37	170	ND<50	—	0.70	ND<50	ND<50	ND<50	170	TAME = 13 Other oxygenates ND
9/21/04	22.91	8.95	270	ND<50	—	0.54	ND<50	ND<50	ND<50	280	TAME = 38 Other oxygenates ND
10/19/04	22.78	9.08	65	ND<50	—	ND<50	ND<50	ND<50	ND<50	90	TAME = 7.0 Other oxygenates ND
2/16/05	26.11	5.75	250	ND<50	—	1.6	ND<50	ND<50	ND<50	240	TAME = 38 TBA = 210 Other oxygenates ND
5/12/05	27.87	3.99	ND>50	ND<50	—	ND<50	ND<50	ND<50	ND<50	5.2	All oxygenates ND
8/9/05	24.75	7.11	ND>50	ND<50	—	ND<50	ND<50	ND<50	ND<50	17	TAME = 1.6 Other oxygenates ND
11/15/05	25.84	6.02	ND>50	ND<50	—	ND<50	ND<50	ND<50	ND<50	19	TAME = 2.0 Other oxygenates ND
2/14/06	27.81	4.05	ND>50	ND<50	—	ND<50	ND<50	ND<50	ND<50	1.1	All oxygenates ND; Chromium ND<10
MW-8 Screened Interval 10-15 feet bgs											
11/12/2002	31.52	20.21	11.31	2,100	ND<50	—	ND<0.5	ND<0.5	ND<0.5	4,300	TAME = 310 TBA = 1,200 ETBE = 14 Other oxygenates ND
11/26/2002	19.62	11.90	830	ND<50	ND<70	4.2	ND<0.5	0.92	ND<0.5	1,200	TAME = 73 TBA = 710 ETBE = 6.0 Other oxygenates ND
12/10/2002	17.87	13.65	—	—	—	—	—	—	—	—	—
12/23/2002	22.37	9.15	280	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1,300	TAME = 14 ETBE = 3.9 Other oxygenates ND

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Groundwater Measurements						Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPhd ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
MW-8 Continued											
1/9/03	26.15	5.37	120	ND <50	--	ND <0.5	ND <0.5	ND <0.5	ND <0.5	170	TAME = 8.5 TBA = 56 ETBE = 1.7 Other oxygenates ND
1/30/03	27.73	3.79	140	ND <50	--	ND <0.5	ND <0.5	ND <0.5	ND <0.5	190	TAME = 5.0 TBA = 57 ETBE = 2.3 Other oxygenates ND
3/12/03	24.09	7.43	ND <50	ND <50	--	ND <0.5	ND <0.5	ND <0.5	ND <0.5	4.8	All oxygenates ND
4/17/03	27.50	4.02	75	ND <50	ND <50	ND <0.50	ND <0.50	0.99	1.7	3.6	All oxygenates ND
5/14/03	26.75	4.77	56	ND <50	ND <50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	3.8	All oxygenates ND
6/10/03	26.32	5.20	330	59	ND <50	ND <0.50	ND <0.50	ND <0.50	9	1.0	All oxygenates ND
7/16/03	23.75	7.77	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
8/15/03	22.47	9.05	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
9/16/03	21.81	9.71	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.7	All oxygenates ND
10/15/03	20.86	10.66	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.5	All oxygenates ND
11/19/03	22.85	8.67	96	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	0.51	ND <1.0
12/11/03	25.50	6.02	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	9.3	All oxygenates ND
1/14/04	27.34	4.18	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	49	All oxygenates ND
2/9/04	27.56	3.96	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	3.7	All oxygenates ND
3/10/04	27.10	4.42	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
4/14/04	27.23	4.29	210	ND <50	--	ND <0.50	ND <0.50	0.66	4.5	ND <1.0	All oxygenates ND
5/13/04	26.49	5.03	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
6/24/04	25.88	5.64	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
7/27/04	23.90	7.62	62	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	3.7	All oxygenates ND
8/26/04	23.24	8.28	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	3.2	All oxygenates ND
9/21/04	22.64	8.88	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.3	All oxygenates ND
10/19/04	22.65	8.87	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.6	All oxygenates ND
2/16/05	25.91	5.61	ND <50	ND <50	--	ND <0.50	ND <0.50	ND <0.50	ND <0.50	1.8	All oxygenates ND
5/12/05	28.17	3.35	2,200	220	--	9.3	ND <0.50	32	14	3.3	TAME = 1.7 All other oxygenates ND
8/9/05	24.91	6.61	1,500	270	--	1.3	ND <0.50	33	8.1	ND <2.0	All oxygenates ND
8/18/05	24.65	6.87	1,800	220	--	0.61	ND <0.50	43	12	ND <1.0	All oxygenates ND
11/15/05	26.17	5.35	1,600	210	--	1.9	ND <0.50	34	12	ND <1.0	All oxygenates ND ; Chromium ND <10
2/14/06	28.53	2.99	1,900	140	--	1.8	0.54	16	10	ND <1.0	All oxygenates ND ; Chromium ND <10
PZ-1											
11/20/2001	29.76	20.12	9.64	ND <50	ND <50	--	ND <0.5	ND <0.5	ND <0.5	ND <1.0	TAME ND=20 Other oxygenates ND
12/13/2001		24.75	5.01	--	--	--	--	--	--	--	--
2/5/2002		26.43	3.33	--	--	--	--	--	--	--	--
5/7/2002		24.51	5.25	--	--	--	--	--	--	--	--

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS

Crescent City Shell, PFP, LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA, Case No. 1TDN026

Groundwater Measurements

WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet feet) (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHro ($\mu\text{g/l}$)	Analytical Results					
							Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
PZ-1 Continued												
8/14/2002	20.96	19.53	10.23	ND <50			ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1.0	Other oxygenates ND
11/12/2002												
5/14/2003	25.06	4.70										
7/16/03	22.74	7.02										
8/15/03	21.57	8.19										
11/19/03	20.53	9.23										
2/9/04	26.69	3.07										
3/10/04	---											
4/14/04	24.73	5.03										
5/13/04	22.82	6.94										
6/24/04	20.86	8.90										
8/26/04	23.91	5.85										
10/19/04	26.38	3.38										
2/16/05	22.33	7.43										
5/12/05	24.12	5.64										
8/9/05	26.33	3.43										
11/15/05												
2/14/06												
OW-1 Screened Interval 5-10 feet bgs												
11/20/2001	29.64											
2/25/2002	24.09	5.55	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND
5/7/2002	25.53	4.11	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND
8/14/2002	32.63	24.48	8.15	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND
11/12/2002	22.98	9.65										
5/14/2003	28.93	3.70	83	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND
7/16/03												
8/15/03	24.40	8.23	ND <50				ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND
11/9/03	23.43	9.20	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	Other oxygenates ND
2/9/04	29.21	3.42										
3/10/04												
5/13/04	27.45	5.18	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	33	Other oxygenates ND
8/26/04	23.72	8.91	50	ND <50	ND <50		ND <0.50	ND <0.50	ND <0.50	ND <0.50	43	Other oxygenates ND
10/19/04												
2/16/05	26.98	5.65										
5/12/05	28.53	4.10	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
8/9/05	25.23	7.40	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
11/15/05	27.07	5.56	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND
2/14/06	28.71	3.92	ND <50	ND <50			ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet) Screened Interval 5-10 feet bgs	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
11/20/2001	29.95	—	—	ND<50	ND<50	—	ND<50	ND<50	ND<50	ND<50	35	TAME=3.2 Other oxygenates ND
2/5/2002	24.97	4.98	ND	55	ND<50	190	ND<50	ND<50	ND<50	ND<50	25	TAME=2.5 Other oxygenates ND
5/7/2002	25.03	4.92	—	—	—	—	—	—	—	—	—	—
8/14/2002	32.43	23.67	8.76	—	—	—	—	—	—	—	—	—
11/12/2002	22.80	9.63	—	—	—	—	—	—	—	—	—	—
5/14/2003	28.41	4.02	120	ND<50	—	—	ND<50	ND<50	ND<50	ND<50	1.2	Other oxygenates ND
7/16/03	—	—	—	—	—	—	—	—	—	—	—	—
8/15/03	24.28	8.15	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	Other oxygenates ND
11/19/03	23.34	9.09	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	Other oxygenates ND
2/9/04	29.00	3.43	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	Other oxygenates ND
3/10/04	—	—	—	—	—	—	—	—	—	—	—	—
4/14/04	—	—	—	—	—	—	—	—	—	—	—	—
5/13/04	27.29	5.14	58	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	66	Other oxygenates ND
8/26/04	23.54	8.89	93	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	76	Other oxygenates ND
10/19/04	—	—	—	—	—	—	—	—	—	—	—	—
2/16/05	26.61	5.82	—	—	—	—	—	—	—	—	—	—
5/12/05	28.25	4.18	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	All oxygenates ND
8/9/05	25.13	7.30	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	All oxygenates ND
11/15/05	26.51	5.92	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	All oxygenates ND
2/14/06	28.45	3.98	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<1.0	All oxygenates ND
OW-3 Screened Interval 5-10 feet bgs												
11/20/2001	28.92	19.94	8.98	—	—	—	—	—	—	—	—	TAME=560
2/5/2002	24.53	4.39	16,000	410	—	—	770	830	270	890	5,800	Other oxygenates ND
5/7/2002	24.24	4.68	42,000	440	ND<170	1,100	3,200	1,000	4,300	17,000	TBA=1,800 TAME=3,100 Other oxygenates ND	
8/14/2002	31.91	23.09	8.82	—	—	—	—	—	—	—	—	—
11/12/2002	21.96	9.95	—	—	—	—	—	—	—	—	—	—
11/26/2002	—	—	—	—	—	—	—	—	—	—	—	—
12/10/2002	—	—	—	—	—	—	—	—	—	—	—	—

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE (ng/l)	Other Analytes ($\mu\text{g/l}$)
OW3 Continued												
12/23/2002	26.71	5.20	4,700	51	—	—	76	96	31	420	2,600	Other oxygenates ND
1/9/03	28.34	3.57	2,600	120	—	—	9.9	17	9.8	150	890	TBA = 1,500 TAME = 94 Other oxygenates ND
1/30/03	29.21	2.70	4,800	460	—	—	19	28	41	281	470	TAME = 52 Other oxygenates ND
3/12/03	28.73	3.18	5,900	710	—	—	21	42	56	530	210	TBA = 480 TAME = 28 Other oxygenates ND
4/17/03	29.30	2.61	4,200	250	—	—	15	30	53	500	110	TBA = 340 TAME = 18 Other oxygenates ND
5/14/03	27.90	4.01	1,300	110	—	—	3.1	2.1	12	57	52	TBA = 140 TAME = 6.8 Other oxygenates ND
6/10/03	26.74	5.17	2,600	150	—	—	14	2.5	23	92	150	TBA = 1,900 TAME = 110 Other oxygenates ND
7/16/03	25.18	6.73	1,900	180	—	—	8.1	3.2	27	106	490	TBA = 620 TAME = 43 Other oxygenates ND
8/15/03	24.13	7.78	3,300	—	—	—	62	51	42	164	1,900	TBA = 1,200 TAME = 220 Other oxygenates ND
9/16/03	23.28	8.63	4,600	—	—	—	130	140	50	233	1,200	TBA = 440 TAME = 190 Other oxygenates ND
10/15/03	22.63	9.28	3,600	—	—	—	69	85	17	158	720	TBA = 260 TAME = 230 Other oxygenates ND
11/19/03	23.19	8.72	2,700	—	—	—	27	39	10	90	530	TBA = 170 TAME = 75 Other oxygenates ND

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N Highway 101, Crescent City, CA, Case No. ITDN026

Groundwater Measurements						Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
OW-3 Continued												
1/2/11/03	26.14	5.77	3,600	180	--	49	160	39	272	ND<150	TBA = 57 TAME = 30	
1/14/04	28.82	3.09	4,300	160	--	35	160	66	540	48	Other oxygenates ND TAME = 18	
2/9/04	28.55	3.36	3,700	160	--	6.6	25	18	200	61	Other oxygenates ND TAME = 14	
3/10/04	28.21	3.70	2,100	93	--	3.7	18	12	127	28	Other oxygenates ND TBA = 50 TAME = 6.7	
4/14/04	27.50	4.41	4,300	150	--	18	52	45	300	96	Other oxygenates ND TBA = 120 TAME = 29	
5/13/04	27.07	4.84	3,200	190	--	11	39	36	269	62	Other oxygenates ND TBA = 67 TAME = 17	
6/24/04	25.37	6.54	2,300	280	--	27	45	30	262	440	Other oxygenates ND TBA = 1,200 TAME = 100	
7/27/04	24.27	7.64	3,400	220	--	53	39	30	203	720	Other oxygenates ND TBA = 1,400 TAME = 140	
8/26/04	23.51	8.40	1,500	--	--	26	23	17	187	68	Other oxygenates ND TBA = 41 TAME = 23	
9/21/04	22.95	8.96	2,700	--	--	70	73	43	277	180	Other oxygenates ND TAME = 58	
10/19/04	22.88	9.03	3,600	1,200	--	74	59	43	620	71	Other oxygenates ND TAME = 35	
2/16/05	26.56	5.35	4,100	410	--	24	18	52	440	200	Other oxygenates ND TAME = 77	
3/15/05	26.09	5.82	5,300	570	--	20	21	83	920	320	Other oxygenates ND TAME = 85 TBA = 800	
5/12/05	28.00	3.91	3,300	130	--	5.3	9.8	16	212	ND>10	Other oxygenates ND TAME = 3.0	
8/9/05	24.99	6.92	2,800	240	--	3.5	6.7	24	297	40	Other oxygenates ND TAME = 15 TBA = 280	
8/18/05	24.54	7.37	4,200	360	--	2.7	4.2	25	194	55	Other oxygenates ND TAME = 18	
11/15/05	26.47	5.44	2,200	220	--	2.3	3.6	7.0	90	ND>15	Other oxygenates ND TAME = 3.1	
2/14/06	27.81	4.10	1,700	82	--	ND<50	0.96	4.7	52	ND<10	All oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282-02
 1006 N. Highway 101, Crescent City, CA, Case No. 1TDN026

WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	Groundwater Measurements				Analytical Results			
				TPhg ($\mu\text{g/l}$)	TPhd ($\mu\text{g/l}$)	TPhno ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethybenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)
OW 4											
1/1/20/2001	28.82	19.70	9.12	—	—	—	—	—	—	—	—
2/5/2002	25.21	3.61	23,000	1,200	—	480	890	1,500	2,360	820	TAME=110 Other oxygenates ND
5/7/2002	24.47	4.35	30,000	1,200	ND<170	480	520	1,800	3,200	570	TAME=170 Other oxygenates ND
8/14/2002	31.79	23.73	8.06	24,000	ND<62	ND<210	240	140	3,100	1,382	120 TAME=24 Other oxygenates ND
1/1/12/2002	22.26	9.53	—	—	—	—	—	—	—	—	—
1/1/26/2002	—	—	—	—	—	—	—	—	—	—	—
12/10/2002	—	—	—	—	—	—	—	—	—	—	—
12/23/2002	25.95	5.84	560	ND<50	—	ND<0.5	ND<0.5	29	22.1	260	TAME=11 ETBE=2.8 Other oxygenates ND
1/9/03	27.43	4.36	2,800	590	—	7.6	4	83	86	150	TBA=310 ETBE=1.4 Other oxygenates ND
1/30/03	28.77	3.02	190	ND>50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130	TAME=3.9 TBA=1,100 ETBE=.5 Other oxygenates ND
3/12/03	28.42	3.37	1,800	300	—	ND<0.5	ND<0.5	30	27	7.9	TBA=72 Other oxygenates ND
4/17/03	29.25	2.54	2,200	390	—	ND<0.50	0.60	91	90	ND<1.0	Other oxygenates ND
5/14/03	28.50	3.29	290	ND>50	—	ND<0.50	ND<0.50	3.5	3.7	4.0	Other oxygenates ND
6/10/03	27.04	4.75	6,400	1,600	—	0.88	2.8	160	182	ND<5.0	Other oxygenates ND
7/16/03	25.43	6.36	1,900	170	—	ND<0.50	1.3	110	97	ND<1.0	Other oxygenates ND
8/15/03	24.41	7.38	560	—	—	ND<0.50	ND<0.50	47	17	ND<1.0	Other oxygenates ND
9/16/03	—	dry	—	—	—	—	—	—	—	—	—
10/15/03	—	dry	—	—	—	—	—	—	—	—	—
11/19/03	—	dry	—	—	—	—	—	—	—	—	—
12/11/03	25.72	6.07	1,600	270	—	6.2	0.99	51	38	ND>50	Other oxygenates ND
1/14/04	29.14	2.65	2,000	110	—	ND<0.50	0.52	100	54	35	Other oxygenates ND
2/9/04	29.03	2.76	2,500	190	—	ND<0.50	ND<0.50	83	61	ND>4.0	Other oxygenates ND
3/10/04	28.71	3.08	790	80	—	ND<0.50	ND<0.50	43	20	ND<1.0	Other oxygenates ND
4/14/04	27.69	4.10	4,700	370	—	ND<0.50	ND<0.50	160	124	ND<1.0	Other oxygenates ND

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN/026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
OW-4 Continued												
5/13/04	27.21	4.58	1,500	ND<50	---	ND<50	ND<50	81	36	ND<10	Other oxygenates ND	
6/7/04	24.97	6.82	2,100	160	---	ND<50	ND<50	94	47	ND<10	Other oxygenates ND	
7/2/04	24.34	7.45	2,100	150	---	ND<50	ND<50	100	47	2.3	Other oxygenates ND	
8/26/04	23.61	8.18	4,000	54	---	ND<50	ND<50	57	53	ND<10	Other oxygenates ND	
9/21/04	---	dry	---	---	---	---	---	---	---	---	---	
10/19/04	22.98	8.81	500	180	---	ND<50	ND<50	ND<50	ND<50	ND<10	Other oxygenates ND	
2/16/05	26.62	5.17	4,100	580	---	3.5	ND<50	170	77	ND<10	Other oxygenates ND	
3/15/05	25.77	6.02	ND<50	ND<50	---	ND<50	ND<50	ND<50	ND<50	ND<10	Other oxygenates ND	
5/12/05	28.22	3.57	ND<50	ND<50	---	ND<50	ND<50	ND<50	ND<50	ND<10	All oxygenates ND	
8/9/05	24.95	6.84	59	ND<50	---	ND<50	ND<50	ND<50	ND<50	ND<10	All oxygenates ND	
1/15/05	26.61	5.18	69	ND<50	---	ND<50	ND<50	ND<50	ND<50	ND<10	All oxygenates ND	
2/14/06	28.61	3.18	640	50	---	ND<50	ND<50	ND<50	ND<50	ND<10	All oxygenates ND; Chromium ND<10	
OW-5 Screened Interval 5-10 feet bgs												
11/20/2001	28.76	19.63	9.13	---	---	---	---	---	---	---	TAME=21	
2/5/2002	25.54	3.22	1,600	110	---	21	0.7	41	4.8	210	TBA=24	
5/7/2002	23.70	5.06	6,800	450	ND<170	280	ND<25	480	56	640	Other oxygenates	
8/14/2002	31.75	23.52	8.23	Unable to sample due to presence of free product (0.8 feet thick)							TAME=100	
11/12/2002	22.26	9.49	---	---	---	---	---	---	---	---	---	
1/9/2003	27.78	3.97	390	77	---	3.5	0.95	1.7	3.5	150	TAME=20	
1/30/2003	29.22	2.53	3,000	230	---	4.7	ND<50	0.56	0.63	4,400	Other oxygenates ND	
3/12/2003	28.49	3.26	1,000	120	---	ND<5	ND<50	0.94	ND<5	1,900	TBA=730	
4/17/2003	27.49	4.26	800	91	---	8.6	ND<50	15	2.0	1,100	TAME=210	
											ETBE=1.4	
											Other oxygenates ND	
											TBA=22	
											TAME=99	
											Other oxygenates ND	
											TBA=35	
											TAME=28	
											Other oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP, LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

Groundwater Measurements							Analytical Results					
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water, (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
OW-5 Continued												
5/14/2003	26.49	5.26	210	56	--	2.5	ND<50	1.7	1.3	440	Other oxygenates ND	
6/10/2003	26.70	5.05	450	ND<50	--	11	ND<50	1.5	ND<0.5	330	TAME = 25 TBA = 39	
7/16/03	24.89	6.86	170	ND<50	--	2.7	ND<50	2.4	ND<0.5	95	Other oxygenates ND TAME = 7.4 TBA = 36	
8/15/03	24.05	7.70	210	--	--	ND<50	ND<50	ND<50	0.51	210	Other oxygenates ND TAME = 14 TBA = 140	
9/16/03	--	dry	--	--	--	--	--	--	--	--	Other oxygenates ND	
10/15/03	--	dry	--	--	--	--	--	--	--	--	Other oxygenates ND	
11/19/03	--	dry	--	--	--	--	--	--	--	--	Other oxygenates ND	
12/11/03	25.85	5.90	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<50	ND<0.5	6.7 Other oxygenates ND	
1/14/04	28.87	2.88	52	ND<50	--	ND<50	ND<50	ND<50	ND<0.5	64	TAME = 1.5 Other oxygenates ND	
2/9/04	28.57	3.18	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<0.5	1.4	Other oxygenates ND	
3/10/04	28.34	3.41	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<0.5	ND<1.0	Other oxygenates ND	
4/14/04	27.54	4.21	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<0.5	1.4	Other oxygenates ND	
5/13/04	26.90	4.85	ND<50	ND<50	--	ND<50	ND<50	ND<50	ND<0.5	ND<1.0	Other oxygenates ND	
6/24/04	25.22	6.53	ND<50	ND<50	--	0.60	ND<50	ND<50	ND<0.50	5.5	Other oxygenates ND	
7/27/04	24.13	7.62	ND<50	ND<50	--	0.65	ND<50	ND<50	ND<0.50	18	TAME = 2.2 TBA = 68	
8/26/04	23.53	8.22	57	ND<50	--	ND<50	ND<50	ND<50	ND<0.50	45	Other oxygenates ND TAME = 3.9 Other oxygenates ND	
9/21/04	--	dry	--	--	--	ND<50	ND<50	ND<50	ND<0.50	4.3	Other oxygenates ND	
10/19/04	23.00	8.75	62	ND<50	--	0.51	ND<50	ND<50	ND<0.50	4.7	Other oxygenates ND	
2/16/05	26.34	5.41	ND<50	--	--	ND<50	ND<50	ND<50	ND<0.50	2.5	Other oxygenates ND	
3/15/05	25.89	5.86	ND<50	--	--	ND<50	ND<50	ND<50	ND<0.50	ND<1.0	All oxygenates ND	
5/12/05	28.23	3.52	ND<50	--	--	ND<50	ND<50	ND<50	ND<0.50	23	TAME = 2.5 Other oxygenates ND	
8/9/05	24.90	6.85	ND<50	--	--	ND<50	ND<50	ND<50	ND<0.50	3.4	All oxygenates ND	
1/11/05	26.56	5.19	ND<50	--	--	ND<50	ND<50	ND<50	ND<0.50	ND<1.0	All oxygenates ND, Chromium ND<10	
2/14/06	28.50	3.25	69	ND<50	--	ND<50	ND<50	ND<50	0.51	ND<0.50		
Domestic Well, Totem Motel												
3/20/1995	26.27	--	ND<50	ND<50	--	ND<5	ND<5	ND<5	ND<0.5	ND<0.5	--	
6/11/1999	--	--	ND<50	ND<50	--	ND<5	ND<5	ND<5	ND<0.5	ND<0.5	--	
8/18/1999	--	--	ND<50	ND<50	--	ND<5	ND<5	ND<5	ND<0.5	ND<0.5	--	
12/12/1999	23.37	2.90	ND<67	--	--	ND<5	ND<5	ND<5	ND<0.5	ND<0.5	Other oxygenates ND	
2/15/2000	--	--	ND<50	--	--	ND<5	ND<5	ND<5	ND<0.5	ND<0.5	Other oxygenates ND	
5/30/2000	--	--	ND<50	--	--	ND<5	ND<5	ND<5	ND<0.5	ND<0.5	Other oxygenates ND	

TABLE 3: GROUNDWATER ELEVATION DATA AND GROUNDWATER ANALYTICAL RESULTS
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Groundwater Measurements				Analytical Results								
WELL/ Sample Date	Well Head Elevation (feet msl)	Groundwater Elevation (feet msl)	Depth to Water (feet)	TPHg ($\mu\text{g/l}$)	TPHd ($\mu\text{g/l}$)	TPHmo ($\mu\text{g/l}$)	Benzene ($\mu\text{g/l}$)	Toluene ($\mu\text{g/l}$)	Ethylbenzene ($\mu\text{g/l}$)	Xylenes ($\mu\text{g/l}$)	MTBE ($\mu\text{g/l}$)	Other Analytes ($\mu\text{g/l}$)
Domestic Well Continued												
8/29/2000	19.07	7.20	ND <50	—	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	Other oxygenates ND	
1/18/2001	19.27	7.00	ND <50	ND <50	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	Other oxygenates ND	
2/7/2001	20.96	5.31	ND <50	ND <50	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	Other oxygenates ND	
4/24/2001	21.26	5.01	ND <50	ND <50	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	Other oxygenates ND	
8/8/2001	—	—	ND <50	ND <50	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	TBA = 60	
11/13/2001	19.02	7.25	ND <50	57	—	—	ND <0.5	ND <0.5	ND <0.5	ND <0.5	All oxygenates ND	
11/20/2001	24.76	1.51	ND <50	ND <50	—	—	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	
2/5/2002	21.67	4.60	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	
5/7/2002	—	—	—	—	—	—	—	—	—	—	—	
8/14/2002	18.03	8.24	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	
11/12/2002	23.64	2.63	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	
5/14/2003	18.68	7.59	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	
11/19/2003	25.04	1.23	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	
2/9/2004	—	—	—	—	—	—	—	—	—	—	—	
3/10/04	—	—	—	—	—	—	—	—	—	—	—	
4/14/04	—	—	—	—	—	—	—	—	—	—	—	
5/13/2004	21.93	4.34	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
8/26/2004	18.77	7.50	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
5/12/2005	24.34	1.93	ND <50	ND <50	—	—	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
8/9/05	20.02	6.25	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
1/15/05	23.16	3.11	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
2/14/06	24.08	2.19	ND <50	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <1.0	All oxygenates ND	
Trailer Park Domestic Well												
5/7/2002	—	—	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	
8/15/2003	—	6.98	ND <50	ND <50	ND <70	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	All oxygenates ND	

Reference B.M. - Manhole cover at Harding & Douglas Streets; established by tie to County BM "E-6" (elev. 33.57 ft msrl).
 Elevations set 5/30/95 by Michael Young & Associates, Crescent City.

13.65

0.43

TABLE 4: CHROMIUM ANALYSES RESULTS
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Total Chromium µg/L	Dissolved Chromium µg/L	Hexavalent Chromium µg/L
MW1			
9/16/2003	---	3.9	---
10/15/2003	---	ND<10	---
11/19/2003	---	ND<10	---
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	4.9	---
3/10/2004	---	ND<10	---
4/14/2004	---	ND<10	---
5/13/2004	---	ND<10	---
8/26/2004	---	ND<10	---
9/21/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	130	ND<10	---
3/15/2005	---	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	ND<10	---
MW2			
8/15/2003	12	ND<10	ND<10
9/16/2003	---	35	---
10/15/2003	---	26	---
11/19/2003	---	57	---
12/11/2003	---	22	---
1/14/2004	---	23	---
2/9/2004	---	18	---
3/10/2004	---	25	---
4/14/2004	---	29	---
5/13/2004	---	31	---
8/26/2004	---	40	---
9/21/2004	---	56	---
10/19/2004	---	48	---
2/16/2005	33	25	---
5/12/2005	---	21	---
8/9/2005	---	35	---
11/15/2005	---	25	---
2/14/2006	---	28	---

TABLE 4: CHROMIUM ANALYSES RESULTS

Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Total Chromium µg/L	Dissolved Chromium µg/L	Hexavalent Chromium µg/L
MW4			
8/15/2003	190	ND<10	ND<10
9/16/2003	---	1.0	---
10/15/2003	---	ND<10	---
11/19/2003	---	ND<10	---
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	7.7	---
3/10/2004	---	ND<10	---
4/14/2004	---	ND<10	---
5/13/2004	---	ND<10	---
8/26/2004	---	ND<10	---
9/21/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	74	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	11	---
MW5			
8/8/2003	---	---	32
8/15/2003	67	57	64
9/16/2003	---	43	---
10/15/2003	---	61	---
11/19/2003	---	72	---
12/11/2003	---	55	---
1/14/2004	---	26	---
2/9/2004	---	44	---
3/10/2004	---	81	---
4/14/2004	---	39	---
5/13/2004	---	18	---
8/26/2004	---	ND<10	---
9/21/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	ND<10	ND<10	---
3/15/2005	---	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	18	---
2/14/2006	---	ND<10	---

TABLE 4: CHROMIUM ANALYSES RESULTS
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Total Chromium µg/L	Dissolved Chromium µg/L	Hexavalent Chromium µg/L
MW6			
9/16/2003	---	---	ND<1.0
10/15/2003	---	ND<10	---
11/19/2003	---	ND<10	---
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	1.7	---
3/10/2004	---	ND<10	---
4/14/2004	---	ND<10	---
5/13/2004	---	ND<10	---
8/26/2004	---	ND<10	---
9/21/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	ND<10	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	ND<10	---
MW7			
9/16/2003	---	---	ND<1.0
10/15/2003	---	ND<10	---
11/19/2003	---	ND<10	---
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	1.3	---
3/10/2004	---	ND<10	---
4/14/2004	---	ND<10	---
5/13/2004	---	ND<10	---
8/26/2004	---	ND<10	---
9/21/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	ND<10	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	ND<10	---

TABLE 4: CHROMIUM ANALYSES RESULTS
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Total Chromium µg/L	Dissolved Chromium µg/L	Hexavalent Chromium µg/L
MW8			
8/15/2003	65	59	62
9/16/2003	---	50	---
10/15/2003	---	98	---
11/19/2003	---	ND<10	---
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	260	---
3/10/2004	---	480	---
4/14/2004	---	120	---
5/13/2004	---	56	---
8/26/2004	---	ND<10	---
9/21/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	ND<10	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	ND<10	---
OW3			
9/16/2003	---	2.5	---
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	2.4	---
3/10/2004	---	ND<10	---
4/14/2004	---	ND<10	---
5/13/2004	---	ND<10	---
8/26/2004	---	1,600	---
10/19/2004	---	ND<10	---
2/16/2005	ND<10	ND<10	---
3/15/2005	---	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	ND<10	---

TABLE 4: CHROMIUM ANALYSES RESULTS
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

WELL/ Sample Date	Total Chromium µg/L	Dissolved Chromium µg/L	Hexavalent Chromium µg/L
OW4			
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	1.6	---
3/10/2004	---	12	---
4/14/2004	---	ND<10	---
5/13/2004	---	ND<10	---
8/26/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	ND<10	ND<10	---
3/15/2005	---	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	ND<10	---
OW5			
12/11/2003	---	ND<10	---
1/14/2004	---	ND<10	---
2/9/2004	---	2.2	---
3/10/2004	---	ND<10	---
4/14/2004	---	ND<10	---
5/13/2004	---	ND<10	---
8/26/2004	---	ND<10	---
10/19/2004	---	ND<10	---
2/16/2005	ND<10	ND<10	---
3/15/2005	---	ND<10	---
5/12/2005	---	ND<10	---
8/9/2005	---	ND<10	---
11/15/2005	---	ND<10	---
2/14/2006	---	ND<10	---

TABLE 4: CHROMIUM ANALYSES RESULTS
Crescent City Shell, PFP; LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

WELL/ Sample	Date	Total Chromium µg/L	Dissolved Chromium µg/L	Hexavalent Chromium µg/L
PZ1	8/8/2003	---	---	ND<10
SP3D	8/15/2003	460	400	---
DW	8/26/2004	---	ND<10	---

TABLE 5: RESULTS OF VAPOR SAMPLE ANALYSIS
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Sampling Location	Date	Analytical Results					
		Benzene (ppbv)	Toluene (ppbv)	Ethylbenzene (ppbv)	m,p-xylene (ppbv)	o-xylene (ppbv)	MTBE (ppbv)
VP-1	11/26/2002	8,600	240	26,000	16,000	640	61,000
	2/12/03	---	---	---	---	---	---
	3/12/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	6/10/03	ND<18	ND<18	ND<18	ND<18	ND<18	14,000
	9/30/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	33
	10/29/03	ND<5.0	8.4	ND<5.0	5.7	ND<5.0	28
	1/28/04	ND<5.0	6.5	ND<5.0	ND<5.0	ND<5.0	21
	2/9/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	15
	5/13/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6.8
	9/21/04	7.3	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6.5
	11/1/04	ND<5.0	7.2	ND<5.0	6.4	ND<5.0	ND<5.0
	2/16/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	5/12/05	---	---	---	---	---	---
	8/9/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/15/05	ND<5.0	13	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/14/06	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
VP-2	11/26/2002	10,000	120,000	36,000	140,000	36,000	98,000
	2/12/03	ND<5.0	7.3	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	3/12/03	ND<5.0	17	ND<5.0	7.1	7.8	1,800
	6/10/03	ND<20	ND<20	ND<20	ND<20	ND<20	13,000
	9/30/03	ND<5.0	ND<5.0	15	51	ND<5.0	91
	10/29/03	ND<500	ND<500	ND<500	ND<500	ND<500	560
	1/28/04	ND<5.0	9.6	ND<5.0	ND<5.0	ND<5.0	7.1
	2/9/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	23
	5/13/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	45
	9/21/04	ND<5.0	9.2	ND<5.0	ND<5.0	ND<5.0	65
	11/1/04	ND<5.0	5.2	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/16/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10.0
	5/12/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	46
	8/9/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	27
	11/15/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	16
	2/14/06	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
VP-3	11/26/2002	56	660	510	1,800	450	ND<5.0
	2/12/03	ND<5.0	10	ND<5.0	5.5	ND<5.0	ND<5.0
	3/12/03	ND<5.0	6.6	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	6/10/03	ND<5.0	6.3	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	9/30/03	ND<5.0	5.8	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/29/03	ND<5.0	8.1	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/28/04	---	---	---	---	---	---
	2/9/04	---	---	---	---	---	---
	5/13/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	9/21/04	ND<5.0	5.8	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/1/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/16/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	5/12/05	---	---	---	---	---	---
	8/9/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/15/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/14/06	---	---	---	---	---	---

TABLE 5: RESULTS OF VAPOR SAMPLE ANALYSIS
 Crescent City Shell, PFP; LACo Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

Sampling Location	Date	Analytical Results					
		Benzene (ppbv)	Toluene (ppbv)	Ethylbenzene (ppbv)	m,p-xylene (ppbv)	o-xylene (ppbv)	MTBE (ppbv)
VP-4	11/26/2002	5,800	670	610	1,100	ND<500	ND<500
	2/12/03	ND<5.0	16	ND<5.0	ND<5.0	ND<5.0	5.6
	3/12/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	6/10/03	ND<5.0	7.6	ND<5.0	5.0	ND<5.0	ND<5.0
	9/30/03	ND<5.0	8.5	ND<5.0	6.5	ND<5.0	ND<5.0
	10/29/03	ND<5.0	7.4	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/28/04	---	---	---	---	---	---
	2/9/04	---	---	---	---	---	---
	5/13/04	ND<5.0	10	ND<5.0	17	ND<5.0	ND<5.0
	9/21/04	ND<5.0	7.5	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/1/04	ND<5.0	5.6	ND<5.0	5.6	ND<5.0	ND<5.0
	2/16/04	ND<5.0	8.5	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	5/12/05	---	---	---	---	---	---
	8/9/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
VP-5	11/15/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/14/06	---	---	---	---	---	---
VP-5	11/26/2002	25	140	170	450	100	ND<5.0
	2/12/03	ND<5.0	18	ND<5.0	ND<5.0	ND<5.0	6.0
	3/12/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	6/10/03	ND<5.0	6.1	ND<5.0	6.4	ND<5.0	31
	9/30/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	10/29/03	ND<5.0	6.4	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	1/28/04	---	---	---	---	---	---
	2/9/04	---	---	---	---	---	---
	5/13/04	ND<5.0	5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	9/21/04	ND<5.0	5.2	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/1/04	ND<5.0	5.3	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/16/04	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	5/12/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	8/9/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
VP-6	11/15/05	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	2/14/06	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0

Table 6. Historical Ozone Injection and System Run Times
 Crescent City Shell PFP, LACCO Project No. 5282.02
 1006 N Highway 101, Crescent City, CA, Case No. ITDN026

Date	Unit 2 Run Time	Corrected Run Time	Elapsed hours	Unit 2 mass output (kg)	Cumulative Input	Total Cumulative Input
12/10/2002	692.28	692.28	692.28	3.46	3.46	7.24
12/18/2002	834.51	834.51	142.23	0.71	4.17	8.20
12/23/2002	834.51	934.85	100.34	0.50	4.67	9.78
1/16/2003	834.52	1373.68	438.83	2.19	6.87	12.62
1/21/2003	834.52	1463.50	89.82	0.45	7.32	13.57
1/30/2003	964.21	1593.19	129.69	0.65	7.97	15.15
3/4/2003	1340.13	1969.11	375.92	1.88	9.85	20.42
3/12/2003	1440.19	2069.17	100.06	0.50	10.35	21.54
4/17/2003	2004.81	2633.79	564.62	2.82	13.17	28.11
5/13/2003	2381.30	3010.28	376.49	1.88	15.05	31.26
6/2/2003	2388.57	3017.55	7.27	0.04	15.09	32.61
6/10/2003	2388.96	3017.94	0.39	0.00	15.09	32.85
6/15/2003	2483.61	3112.59	94.65	0.47	15.56	33.75
6/24/2003	2650.94	3279.92	167.33	0.84	16.40	35.51
7/9/2003	2930.83	3559.81	279.89	1.49	17.80	38.46
7/16/2003	3061.37	3590.35	130.54	0.65	18.45	39.84
7/22/2003	3167.54	3796.52	106.17	0.53	18.98	40.96
7/28/2003	3276.16	3905.14	108.62	0.54	19.53	42.10
8/15/2003	3607.49	4236.47	331.33	1.66	21.18	45.56
8/25/2003	3607.79	4236.77	0.30	0.00	21.18	46.53
9/2/2003	3758.09	4387.07	150.30	0.75	21.94	48.07
9/16/2003	4014.76	4643.74	256.67	1.28	23.22	50.71
9/30/2003	4274.15	4903.13	259.39	1.30	24.52	52.56
10/10/2003	4461.88	5090.86	187.73	0.94	25.45	54.36
10/15/2003	4551.53	5180.51	89.65	0.45	25.90	55.28
10/29/2003	4811.94	5440.92	260.41	1.30	27.20	57.11
12/11/2003	5419.04	6048.02	607.10	3.04	30.24	60.24
1/12/2004	5959.13	6388.11	540.09	2.70	32.94	62.94
1/14/2004	5989.45	6618.43	30.32	0.15	33.09	63.25
2/9/2004	6507.29	7136.27	517.84	2.59	35.68	68.23
2/25/2004	6800.26	7329.24	292.97	1.46	37.15	70.74
6/24/2004	7391.88	8020.86	44.63	0.22	40.10	77.26
4/6/2004	7103.45	7732.43	303.19	1.52	38.66	74.68
4/29/2004	7246.55	7875.53	143.10	0.72	39.38	76.54
6/7/2004	7347.25	7976.23	100.70	0.50	39.88	77.04
8/11/2004	7516.30	8145.28	124.42	0.62	40.73	77.89
8/17/2004	7532.65	8161.63	16.35	0.08	40.81	77.97
8/26/2004	7555.52	8184.50	22.87	0.11	40.92	78.08
9/21/2004	7623.06	8252.04	67.54	0.34	41.26	78.42
10/18/2004	7687.48	8316.46	64.42	0.32	41.58	78.74

Unit run time = 18.32 hr/d
 Ozone injection rate = 5 g/hr/unit
 Corrected run time assumes that the unit was running properly
 during the periods when run time was not accumulating.

Connected both systems to Unit 2. Total ozone output 5 g/hr

Table 6. Historical Ozone Injection and System Run Times
 Crescent City Shell PFP, LACO Project No. 5282.02
 1006 N Highway 101, Crescent City, CA; Case No. 1TDN026

Date	Unit 2 Run Time	Corrected Run Time	Elapsed hours	Unit 2 mass output (kg)	Cumulative Input	Total Cumulative Input
1/15/2004	7758.80	8387.78	71.32	0.36	41.94	79.10
12/13/2004	8010.82	8639.80	252.02	1.26	43.20	80.36
1/12/2005	8553.95	9182.93	543.13	2.72	45.91	83.07
1/24/2005	8785.22	9414.20	231.27	1.16	47.07	84.23
2/16/2005	9208.99	9837.97	423.77	2.12	49.19	85.23
3/15/2005	9727.32	10356.30	518.33	2.59	51.78	86.23
12/1/2005	13140.39	13769.37	3413.07	17.07	68.85	106.01
12/22/2005	13140.87	13769.85	0.48	0.00	68.85	106.01
1/20/2006	13748.16	14377.14	607.29	3.04	71.89	109.05

CHART 1: COMBINED TPH, BENZENE, and MTBE CONCENTRATIONS IN GROUNDWATER IN MW1

Crescent City Shell, PFP; LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. ITDN026

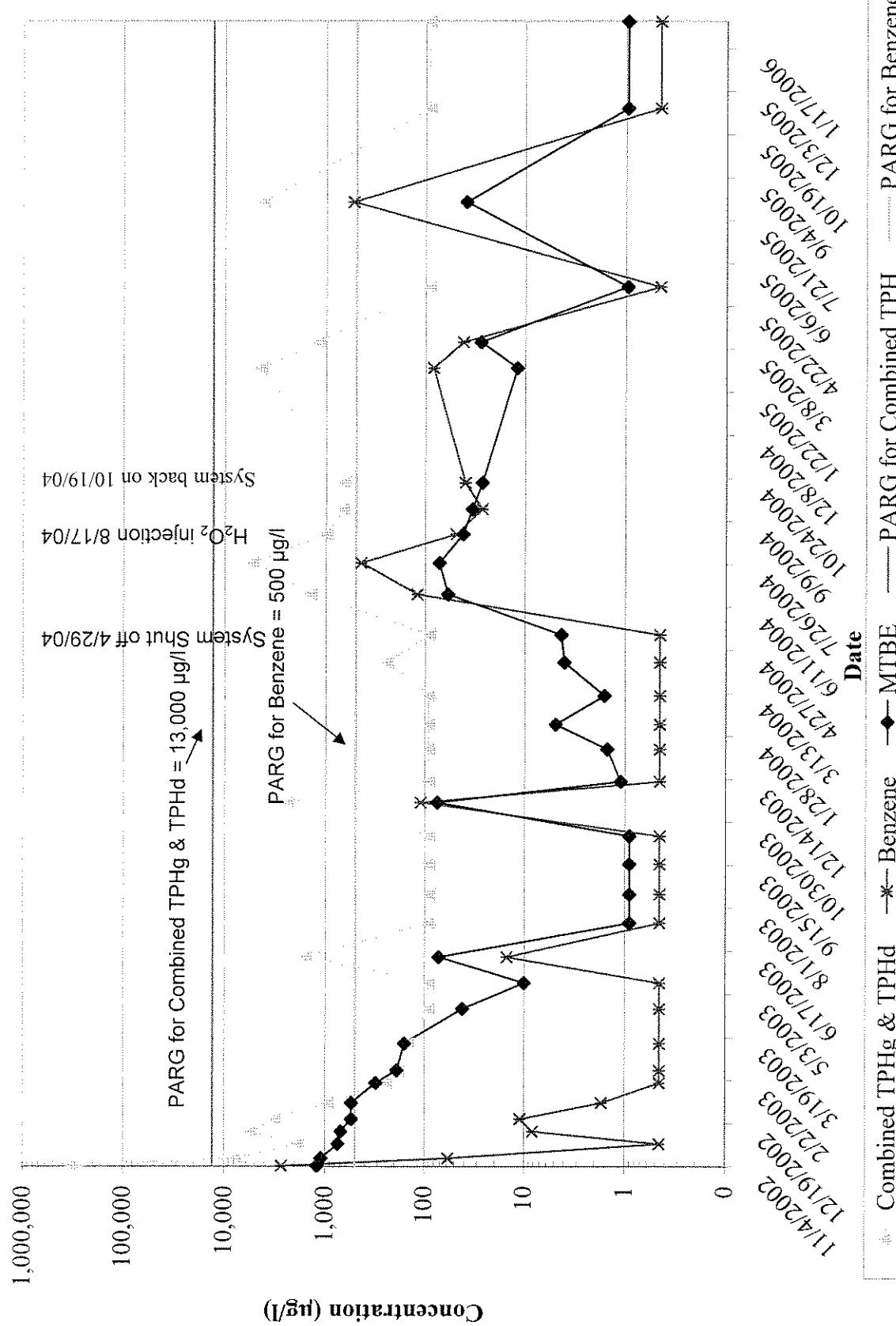


CHART 2: TPHg, TPHd, BENZENE, and MTBE CONCENTRATIONS IN GROUNDWATER IN MW2

Crescent City Shell, PFP; LACO Project No. 5282.02

1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

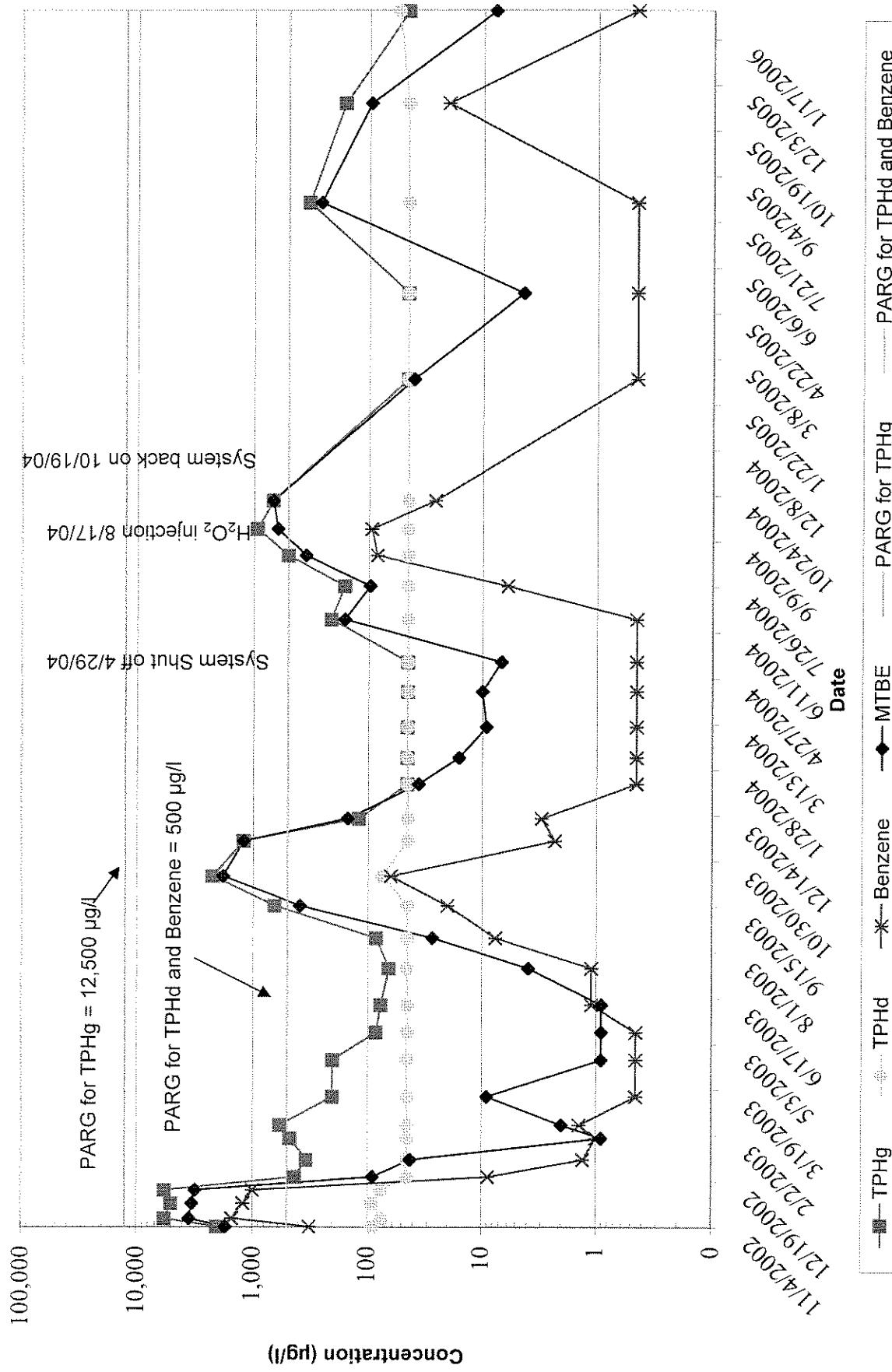


CHART 3: TPH_G, BENZENE, and MTBE CONCENTRATIONS IN GROUNDWATER IN MWS

Crescent City Shell, PFP, LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. TDN026

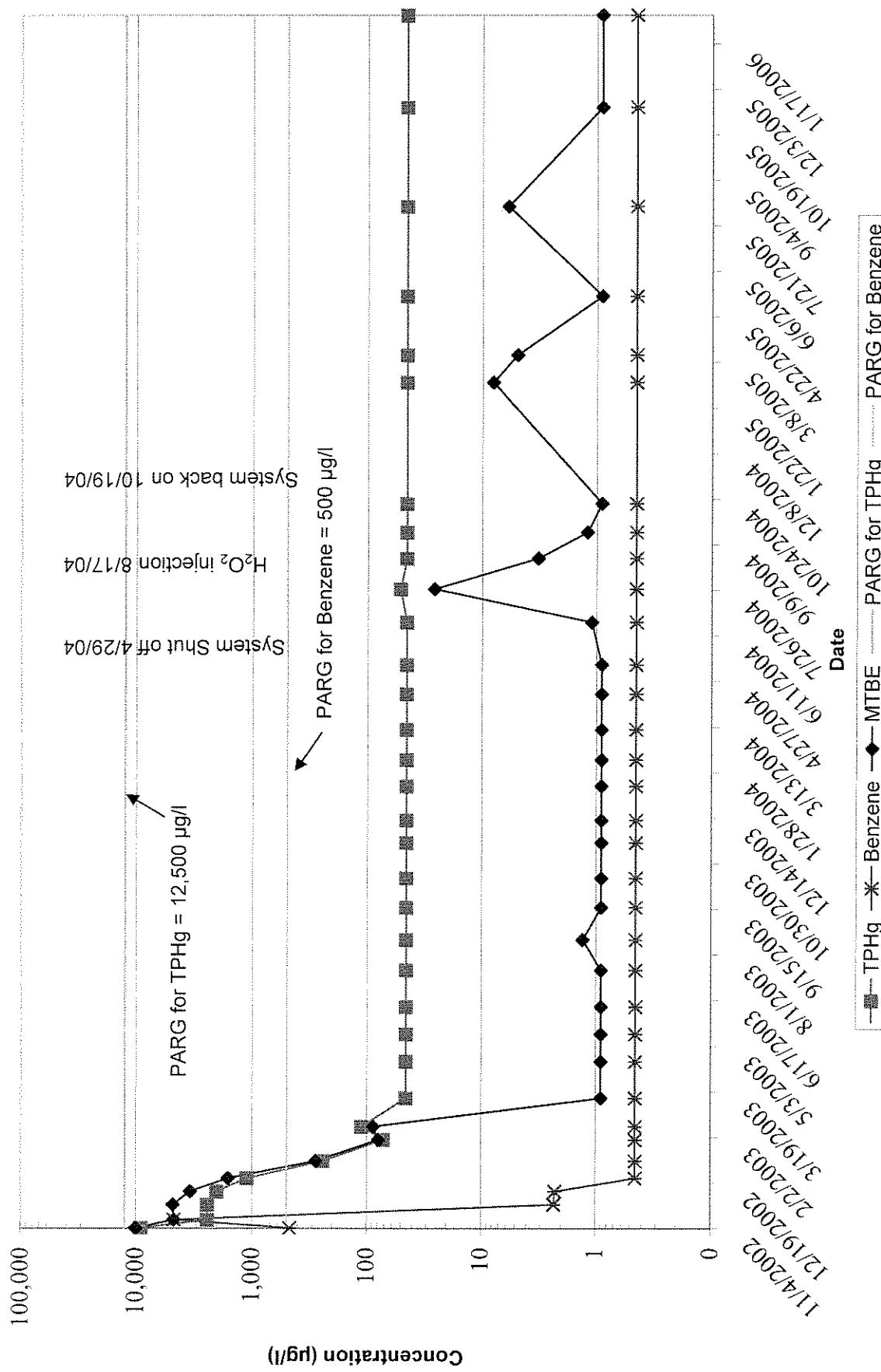


CHART 4: TPHg, TPHd, BENZENE, and MTBE CONCENTRATIONS IN GROUNDWATER IN MW6
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

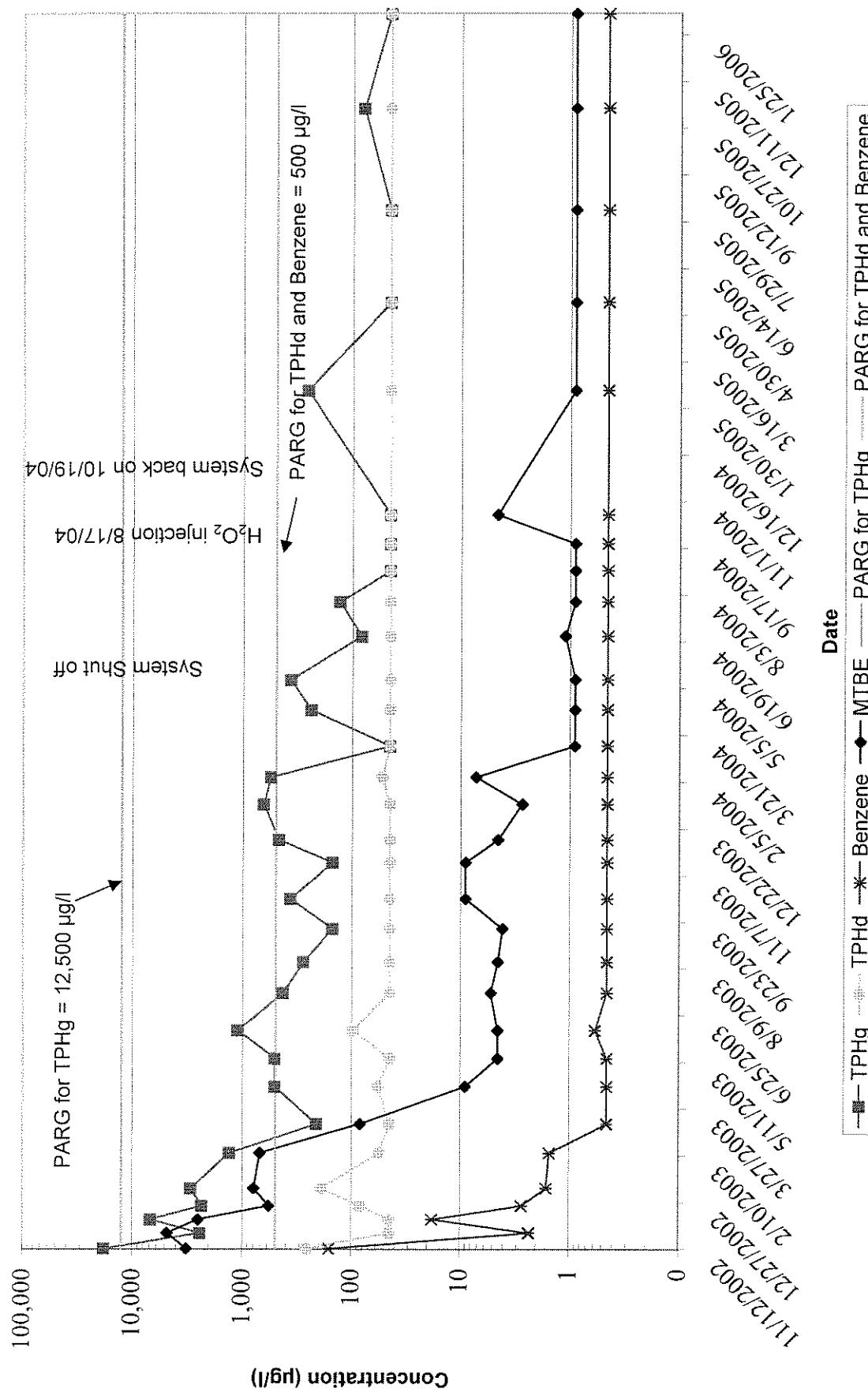


CHART 5: TPHg, BENZENE, and MTBE CONCENTRATIONS IN GROUNDWATER IN MW7

Crescent City Shell, PFP; LACO Project No. 5282.02
1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

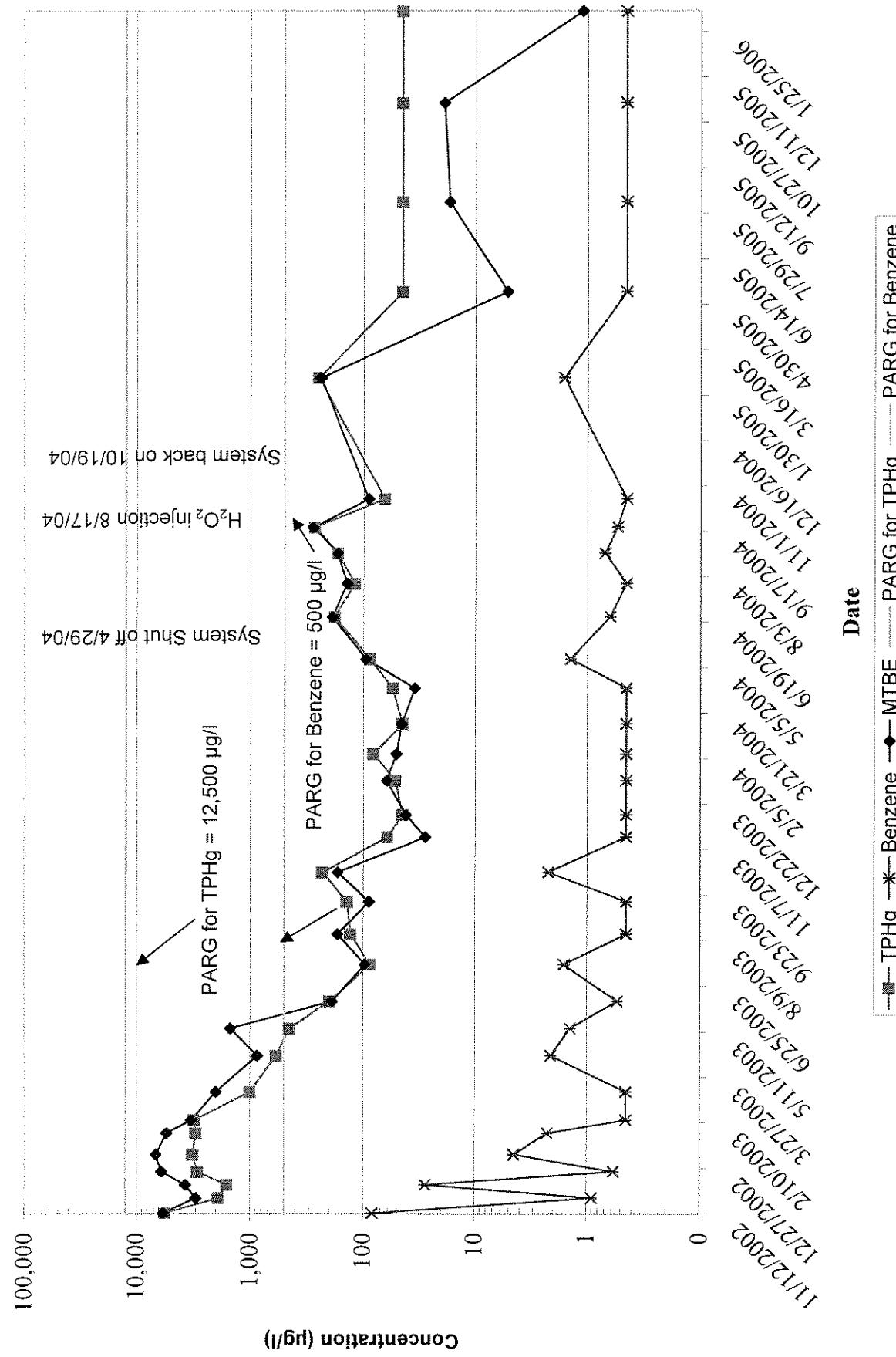
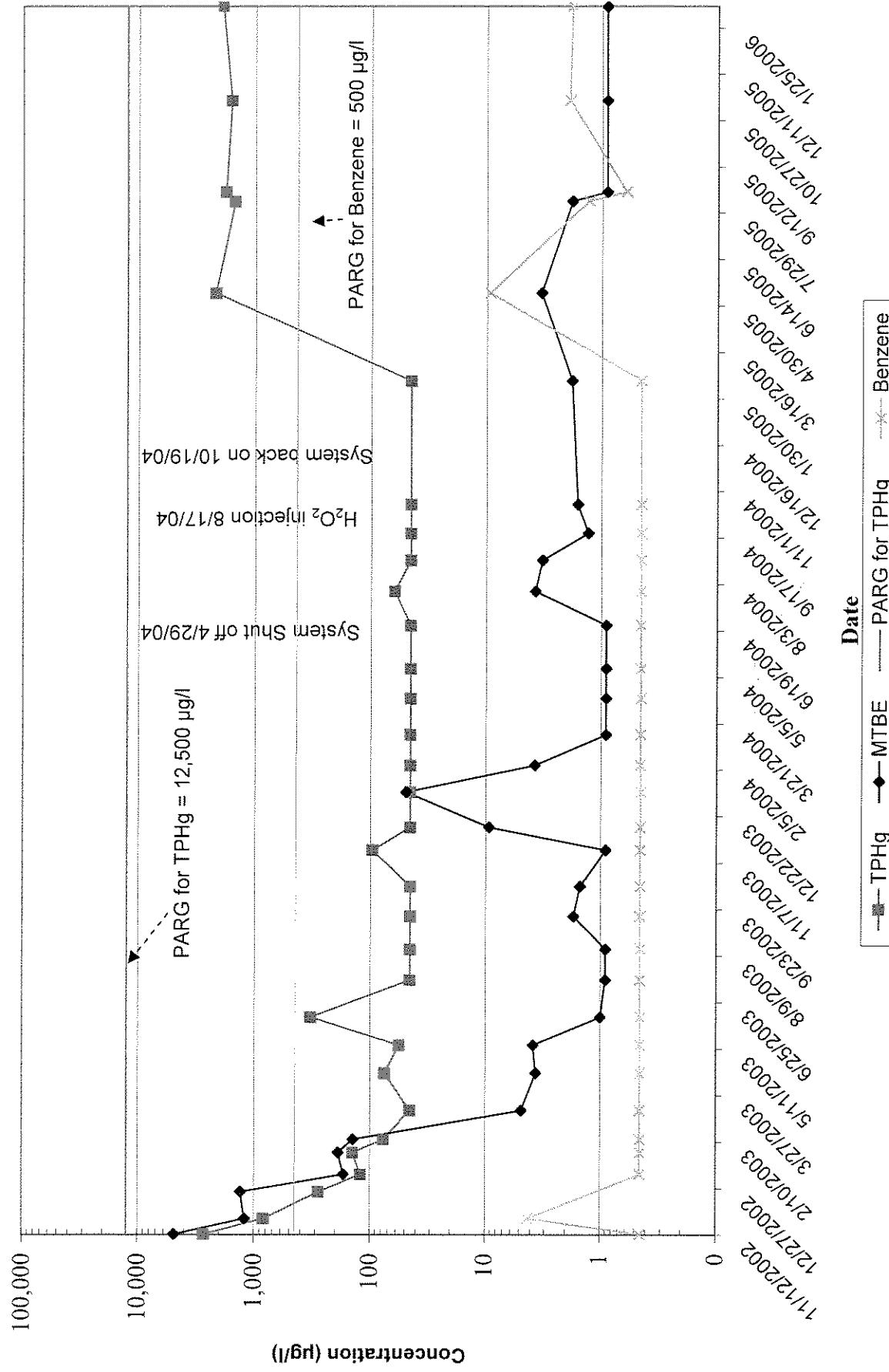


CHART 6: TPHg and MTBE CONCENTRATIONS IN GROUNDWATER IN MW8
 Crescent City Shell, PFP; LACO Project No. 5282.02
 1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026



Attachment 1

ATTACHMENT 1: KEY TO ABBREVIATIONS

Crescent City Shell, PFP; LACO Project No. 5282.01
1006 N. Highway 101, Crescent City, CA; Case No. 1TDN026

KEY TO ABBREVIATIONS	
Alk	-- Alkalinity
As	-- Arsenic
B	-- Bailer; diameter specified
BTEX	-- Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes
CAM	-- Cam Pump
Cl	-- Chloride
CO ₂	-- Carbon dioxide
COC	-- Chain of custody
Cr	-- Chromium
DHP	-- Down-hole-pump (submersible pump)
DIPE	-- Di-isopropyl Ether
Dis	-- Dissolved
DO	-- Dissolved Oxygen; accuracy range of the DO meter is ± 0.3 mg/L
DTW	-- Depth-to-Water
ECw	-- Electrical Conductivity in water; accuracy range of the ECw meter is ± 20 µmhos
ETBE	-- Ethyl Tertiary Butyl Ether
Fe	-- Iron
FP	-- Free Product
Mn	-- Manganese
MTBE	-- Methyl Tertiary Butyl Ether
N	-- Nitrogen
ND<50	-- non-detect at reporting limits shown
NO ₃	-- Nitrate
NOT	-- Sample not analyzed for parameter
ACTIVE	-- during current sampling event
ORP	-- Oxidation Reduction Potential; accuracy range of the ORP meter is ± 2 mV
P	-- Phosphorous
PCP/TCP	-- penta- tetra- tri- chlorophenols
pH	-- Potential of hydrogen; accuracy range of the pH meter is ± 0.2 pH
SGC	-- Silica gel cleanup
SO ₄	-- Sulfate
T	-- Temperature; accuracy range of the temperature meter is ± 0.5 °C
T&P	-- Tape and Paste
TAME	-- Tertiary Amyl Methyl Ether
TBA	-- Tertiary Butyl Alcohol
TBF	-- Tertiary Butyl Formate
TIC	-- Total Inorganic Carbon
TOC	-- Total Organic Carbon
Tot	-- Total
TPHd	-- Total Petroleum Hydrocarbons as Diesel
TPHg	-- Total Petroleum Hydrocarbons as Gasoline
TPHk	-- Total Petroleum Hydrocarbons as Kerosene
TPHmo	-- Total Petroleum Hydrocarbons as Motor Oil
TPHs	-- Total Petroleum Hydrocarbons as Solvent
µg/L	-- Micro grams per liter (parts per billion)

Attachment 2

PROJECT CHRONOLOGY

Crescent City Shell; 100 North Highway 101, Crescent City, California
CRWQCB Case No. 1TDN026; LACO Project No. 5282.02

- October 7-11, 2002** Lake's Well Drilling (Lake's) and LACO ASSOCIATES (LACO) installed 16 sparge points in nine sparge wells.
- October 9, 2002** LACO and a representative of the Northern California Regional Water Quality Control Board (NCRWQCB) collected the initial baseline split samples. They were submitted to North Coast Laboratories (NCL) and Alpha Analytical for analysis of the constituents of concern (COC).
- October 10-11, 2002** Lake's and LACO installed the first three vapor monitoring points.
- October 11-18, 2002** Julien Construction installed the distribution network and control shed.
- October 11, 2002** Northridge Electrical began the installation of the electrical service to the sparge system.
- October 18, 2002** Northridge Electrical made the final connections of the electrical system and installed the outlets and meter in the control shed.
- November 4, 2002** LACO and a representative of the NCRWQCB collected follow-up split samples of monitoring wells MW1, MW2, and MW5. They were submitted to NCL and Alpha Analytical for analysis. Later in the day, the generator panels were delivered and installed in the shed. The sparge points were connected, a pressure test was performed, and the system was operational.
- November 7, 2002** Lake's and LACO installed three additional monitoring wells, to be paired with the shallow wells OW3 through OW5. These wells were requested by the NCRWQCB following the observation that the shallow wells frequently ran dry in low groundwater months.
- November 8, 2002** Lake's and LACO installed the final three vapor monitoring points.
- November 12, 2002** LACO sampled the newly installed monitoring wells under the observation of a representative of the Del Norte County Department of Environmental Health (DNCDEH), who also observed the operation of the system.
- November 26, 2002** LACO performed a systems check and sample collection. A LACO technician reported Unit 2 station pressures between 10 and 20 pounds per square inch (psi).
- December 8, 2002** LACO performed a systems check. The oxygen booster for Unit 1 was installed and turned on by a LACO technician. The solenoid on Port 8 of Unit 2 was discovered to be intermittently staying open.
- December 10, 2002** LACO performed a systems check and sample collection.
- December 26, 2002** LACO performed a systems check and sample collection. The LACO technician still reported low pressures in Unit 2.

January 9, 2003	LACO performed a systems check and sample collection. The LACO technician discovered that Unit 1 had been off since the last visit. Unit 1 was turned back on. The oxygen booster for Unit 2 was installed. A crack in the air compressor piston for Unit 2 was discovered. The air compressor was removed and Unit 2 was turned off.
January 16, 2003	LACO performed a systems check. The LACO technician installed the new air compressor for Unit 2 and turned on the oxygen booster. The pressure in the ports on Unit 2 returned to the normal range (29 to 41 psi).
January 21, 2003	LACO performed a systems check. LACO discovered the run time clock for Unit 2 had not been working since approximately December 18, 2002. The run time error was caused by an improper setting on the current sensing relay. No problems were discovered with the rest of the system. The current relay was reset to its operational range and the dial was taped in place.
January 30, 2003	LACO performed a systems check, and LACO and a representative of the NCRWQCB collected split samples for the 25 percent milestone. They were submitted to NCL and Alpha Analytical for analysis of the COC.
February 12, 2003	LACO performed a systems check and collected performance monitoring samples. This event coincided with the quarterly sampling for the remainder of the wells associated with this site. Additionally, this event marked the transition to monthly sampling for the Pay-for-Performance project wells. While running the pressure test for the ozone panels, the technician noted that Unit 2 was not receiving any power. The run time clock indicated that the short circuit occurred on February 7, 2003.
February 13, 2003	A LACO senior technician visited the site to diagnose the reason for the lack of power in Unit 2. It was determined that the main power receptacle into the unit had experienced a short circuit. The receptacle was dismantled and a replacement part was ordered.
February 14, 2003	LACO technicians replaced the receptacle and performed a pressure test. During the pressure test, tubing into Port 5 of Unit 1 sheared off after being bumped. The damaged section was replaced. The cracked tubing between the backflow valve and the well head connection for sparge point 2S was noticed after an inspection prompted by abnormally high pressure during the Unit 2 pressure test. The section of tubing was replaced and the pressure test proceeded normally. Both units were left up and running.
March 3-4, 2003	Lake's and LACO installed three continuous core borings to 16 feet below ground surface for the collection of soil samples. Hydropunch borings were installed adjacent to each continuous core, with groundwater samples collected from water-bearing zones identified in the continuous cores. Monitoring wells MW6 through MW8 were redeveloped due to anomalous depth-to-water readings. The sparge system was shut off during the installations. The crew performed a pressure test at the end of the field activities. All readings were within the normal range.

March 7, 2003	Humboldt Petroleum, Incorporated performed periodic vacuum tests of the vapor recovery system and found that the lines were not holding pressure. It was determined that one of the borings had compromised the vapor recovery line. The station was shut down pending repairs.
March 10-11, 2003	Beacom Construction began repair of the vapor recovery line. LACO personnel were onsite to monitor activities. A small hole in the vapor recovery line was found to have been caused by the boring installation. It was able to be repaired with a patch and was completely sealed at the end of the first day. The second day was spent performing repairs to the secondary containment system for the product piping lines into the dispensers. The ozone system was shut down at the start of work on March 10, 2003, and restarted at the end of work on March 11, 2003.
March 12, 2003	LACO performed monthly performance monitoring. An additional round of vapor samples was collected to document any vapor release associated with the breach in the vapor recovery line.
April 17, 2003	LACO performed monthly performance monitoring. The ozone generator for Unit 1 was noticed to be turned off, apparently since the last site visit. It was also noted that the air compressor in Unit 1 sounded "rough/choppy." The field technician noted that the supply tubing on sparge point SP4S was cracked; this was fixed. It was noted that sparge point SP4D had a leaky backflow valve at the well head; this was replaced. A slight ozone leak from the master panel of Unit 1 was noted, but all connections were tested and found to be tight.
April 29, 2003	LACO performed a mid-cycle site check to sample vapor points for fugitive ozone using a Dräger pump with an ozone detector tube. LACO arrived onsite and found Unit 1 down. The technicians determined the problem to be a shorted out main power switch. The technicians disconnected the switch and called KVA to have a replacement sent out overnight. Ozone concentrations were measured at the port and wellhead of sparge point SP1S, and in vapor points VP1 and VP2. Technicians replaced the air filter on the Unit 2 air compressor, and the particulate filter on the Unit 2 oxygen concentrator.
May 2, 2003	The Project Manager (PM) arrived onsite to replace the main power switch. After replacing the switch, the air compressor was found to be operating at sub-normal pressures. The head was removed from the compressor body and it was discovered that the rubber band around the piston was shredded. KVA was called to have a replacement piston and gasket set shipped. The PM completed the pressure test on Unit 2 and switched out Teflon tubing from two of the unused ports on Unit 2 with two ports that were in use. LACO will use these new lines to monitor the buildup of the discoloration.

May 5, 2003	The PM arrived onsite to replace the piston. After taking the air compressor apart to make the repair, LACO noticed that the shaft through which the piston travels was cracked. The PM called KVA for a replacement air compressor.
May 8, 2003	The PM arrived onsite to replace the air compressor; the pressure output was still sub-normal. A soap solution was used to check for leaks and it was found that the seal in the head was not tight. As a gasket set that was shipped out for the previous compressor was not brought, the leak could not be fixed. The system was left off.
May 9, 2003	The senior technician replaced the gasket and ran a pressure test on Unit 1; all pressures were normal.
May 14, 2003	The technicians arrived onsite for quarterly monitoring. The technicians performed system checks on both units; all appeared normal and operational.
June 2, 2003	The technician arrived onsite for a systems check. They found the GFI on Unit 1 had tripped so they reset the GFI. Run time indicated that the system shut down on May 26, 2003, at 0335.
June 10, 2003	The technicians arrived onsite for monthly performance monitoring with vapor monitoring postponed from last month due to pump failure. The technicians found Unit 1 down with a shorted and melted GFI and main power switch. They found that neither unit was grounded. Both units were grounded and shorted parts were replaced. Run times in Unit 1 indicated failure occurred on June 3, 2003, at 2146. The unit was restarted at 1445 on June 10, 2003.
June 15, 2003	The PM arrived onsite to perform systems check on both Units 1 and 2; all appeared normal and operational.
June 24, 2003	The technician arrived onsite to perform a system check. Unit 1 appeared normal and operational. Compression fittings on Stations 4 and 5 of Unit 2 were observed to be leaking; the technician replaced compression fittings; all appeared normal and operational.
July 9, 2003	The technician arrived onsite to perform a systems check. Several of the ports on Unit 1 were observed to have leaking compression fittings; compression fittings on Stations 2, 4, and 5 were replaced. Compression fittings on Stations 1 and 6 of Unit 1 may still need to be replaced. Nothing unusual was observed on Unit 2. Units were left operational.
July 16, 2003	The technicians arrived onsite for monthly performance monitoring. Performed system checks on both units; all appeared operational. The front supports for the Unit 2 compressor were observed to be cracked.
July 22, 2003	A staff geologist and drill crew visited the site to install two soil borings (B15 and B16) adjacent to borings B12 and B13 to assess the possible degradation of sorbed-phase contaminants onsite. Soil and respective depth hydro-punch samples were collected from the two borings. A systems check was performed on both units by the staff geologist during

- that visit. The compression fitting for Station 2 on Unit 2 was replaced. All else appeared functional.
- July 28, 2003**
- The technician arrived onsite to perform a system check on both Units 1 and 2. The HDPE tubing was not connected from Station 6 to Unit 1; the tubing was re-connected and the unit then appeared fully operational. The compression fitting for Station 8 on Unit 2 was replaced. Nothing else unusual was observed and the units were left operational.
- August 8, 2003**
- The technicians arrived onsite to collect groundwater samples to analyze for chromium and replaced the HDPE tubing at the C-Sparger and well heads with Teflon tubing. The HDPE tubing experiencing ozone corrosion was replaced with Teflon and Teflon-lined LDPE tubing on Stations 3 and 9 on Unit 1 and Stations 1 to 3 on Unit 2 at the C-Sparger system. The HDPE tubing was replaced with Teflon tubing at well heads 1S to 4S, 6S, 7S, 1D to 3D, and 7D. In addition, the compression fitting on the Unit 1 compressor outflow was replaced.
- August 15, 2003**
- The technicians arrived onsite for monthly performance monitoring. A systems check was not performed due to lack of time.
- August 25, 2003**
- The technicians arrived onsite to perform a systems operation and maintenance check on Units 1 and 2. The technician noted the top of the main power plug on Unit 1 appeared burnt around the black wire, but the wire appeared fine. The C-Sparger on Unit 2 was non-operational upon arrival and the rain-bird had an error reading on its display. The technician observed the main power switch to the unit was burnt; the technician removed the main power switch and hot-wired the unit. The oxygen compressors for both units were turned off. Pressure tests were performed on both units and both units were left running upon departure.
- September 2, 2003**
- The PM and a technician arrived onsite to replace the main power switches and associated wiring on both Units 1 and 2. A yellowish, acidic-smelling liquid was observed in the Teflon feed tube from the oxygen compressor to the ozone unit on Unit 1; a similar liquid was observed in the pressure release valve, below the ozone unit, on Unit 2. This liquid may be nitric acid, resulting from the passive flow of ambient air through the oxygen booster that had been off since the August 25, 2003, visit. A system pressure test was performed; a leak was observed and noted for Port 8 on Unit 2. The tubing was replaced and both units were left in good condition.
- September 16, 2003**
- The technicians arrived onsite for monthly performance monitoring and to perform the systems operation and maintenance check on Units 1 and 2. Both units were fully operational.
- September 30, 2003**
- The technician arrived onsite for quarterly monitoring and system check. Found singed wires on the master relay of Unit 1 – unit not operational. The technician removed and cleaned the wire before replacing. A system check was run on both units.

October 10, 2003	The technician arrived onsite for the bi-monthly performance monitoring. The master circuit breaker had tripped, which the technician reset. The Unit 1 case fan was non-operational and was replaced.
October 15, 2003	The technicians arrived onsite for the monthly performance monitoring and to perform the systems operation and maintenance check on Units 1 and 2. Both units were fully operational.
October 29, 2003	The technicians arrived onsite to perform the systems operation and maintenance check on Units 1 and 2. Leaks were discovered in the HDPE lines to Stations 2 and 6 on Unit 1, and Station 4 on Unit 2. Compression fittings were replaced on the three lines. Both units were left in good condition.
November 19, 2003	The technicians arrive onsite to collect quarterly groundwater monitoring samples. A systems check was not performed due to time constraints.
December 11, 2003	The technicians arrived onsite to perform the monthly performance monitoring in conjunction with a split sampling event to meet requirements for the 75 percent milestone. Leon Perrault of the DNCDEH collected duplicate samples. In addition, a systems operation and maintenance check was performed on both Units 1 and 2. Unit 1 was not running when the technician arrived; a fuse was found in the off position. A systems check was attempted on Unit 1, but the fuse failed and Unit 1 was left non-operational. The line pressure on Station 8 of Unit 2 was over-range and it was believed that the line might be plugged. Unit 2 was left in good condition and operational.
January 12, 2004	The technicians arrived onsite to replace the air compressors on both Units 1 and 2. In addition, a surge protector outlet was installed on each unit. Both units were left in good condition and operational.
January 14, 2004	A LACO technician arrived onsite to perform the monthly performance monitoring and the systems operation and maintenance check. Both Units 1 and 2 were fully operational.
January 28, 2004	A LACO technician arrived onsite to collect vapor samples from vapor extraction wells VP1 and VP2. Vapor samples were not collected from vapor extraction wells VP3 through VP6 due to the shallow, saturated conditions.
February 9, 2004	LACO technicians arrived onsite to collect the quarterly groundwater samples. A monthly systems operation and maintenance check was also performed. Both Units 1 and 2 were observed to be operational.
February 25, 2004	The technicians arrived onsite to perform the systems operation and maintenance check. Unit 1 was fully operational. The new compressor on Unit 2 was observed to be non-operational. The compressor was removed to be rebuilt as the drive shaft was broken.
February 26, 2004	The technicians arrived onsite to replace the compressor. Unit 2 was left in operating condition.
March 10, 2004	LACO technicians arrived onsite to collect the monthly groundwater samples.

March 16, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Unit 1 was observed to be operational. Unit 2 was taken off-line to return the failed compressor to the shop.
March 24, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Both Units 1 and 2 were observed to be operational.
April 6, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Both Units 1 and 2 were observed to be operational.
April 14, 2004	The technicians arrived onsite to collect the monthly groundwater samples. A systems operation and maintenance check was also performed. Both Units 1 and 2 were observed to be operational.
April 20, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Both Units 1 and 2 were observed to be operational.
April 29, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Both Units 1 and 2 were observed to be operational. System run times were reduced to one minute per sparge point in order to test for rebound while keeping the sparge points pressurized.
May 13, 2004	LACO technicians arrive onsite to collect quarterly groundwater samples. Vapor samples were collected from vapor extraction wells VP1 through VP6. A systems operation and maintenance check was also performed. Both Units 1 and 2 were observed to be operational.
June 7, 2004	LACO technicians arrived onsite to remove the oxygen concentrator and KV sparge panel for Unit 1. Unit 1, Lines 1 through 6, were connected to Unit 2, Lines 1 through 6 (using Kynar tube times 3-Tees). The LACO technicians performed a systems operation and maintenance check. Unit 2 was observed to be operational.
June 24, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Monthly groundwater sampling was also performed. Unit 2 was observed to be operational.
July 27, 2004	LACO technicians arrived onsite to perform monthly groundwater sampling.
August 11, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Unit 2 was observed to be operational.
August 17, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Unit 2 was observed to be operational and the Station 5 solenoid was rebuilt. Additionally, a compressor filter was installed, and a peroxide injection was performed onsite.
August 26, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. Unit 2 was observed to be operational and the Station 6 solenoid was rebuilt. Quarterly groundwater sampling was also performed.
September 21, 2004	LACO technicians arrived onsite to perform monthly groundwater sampling. Vapor points were also sampled for laboratory analysis.
October 18, 2004	LACO technicians arrived onsite to develop observation wells OW3, OW4, and OW5.

October 19, 2004	LACO technicians arrived onsite to perform quarterly groundwater sampling. The ozone system was reset to full capacity following rebound of some analytes after the ozone run times were reduced in April.
November 15, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check.
December 13, 2004	LACO technicians arrived onsite to perform a systems operation and maintenance check. A gauge was replaced and a fitting was replaced on lower stem No. 2.
January 12, 2005	LACO technicians arrived onsite to perform a systems operation and maintenance check.
February 16, 2005	LACO technicians arrived onsite to perform a systems operation and maintenance check and quarterly groundwater sampling. Tubing fittings were replaced on Station 7.
March 15, 2005	LACO technicians arrived onsite to perform a systems operation and maintenance check. The 1207 compressor was completely rebuilt and a new snubber and pressure gauge was added. Additionally, groundwater samples were collected to confirm the air compressor is properly operating.
April 11, 2005	LACO technicians arrived onsite to perform a systems operation and maintenance check.
April 14, 2005	LACO technicians arrived onsite to perform a systems operation and maintenance check.
May 12, 2005	LACO technicians arrived onsite to perform quarterly groundwater sampling. Vapor points were also sampled for laboratory analysis.
May 17, 2005	LACO technicians arrived onsite to perform a systems operation and maintenance check. Monitoring wells MW8 and observation well OW4 were re-developed.
June 16, 2005	LACO technician arrived onsite to perform monthly systems operation and maintenance check. Teflon tubing to the back flow valve on Station 2 was replaced, and the solenoid plunger and spring on Station 4 was replaced. Manifold pressures appeared normal to all stations.
July 14, 2005	LACO technicians arrived onsite to perform monthly systems operation and maintenance check. Manifold pressures appeared normal.
August 9, 2005	LACO technicians arrived onsite to perform quarterly groundwater sampling. Vapor points were also sampled for laboratory analysis.
August 11, 2005	LACO technicians arrived onsite to perform monthly systems operation and maintenance check.
August 18, 2005	LACO technicians arrived onsite to perform additional third quarter of 2005 sampling of monitoring well MW8 and observation well OW3.
October 4, 2005	LACO technicians arrived onsite to perform monthly systems operation and maintenance check. The system was shut down for repairs.
October 11, 2005	LACO technicians arrived onsite to perform monthly systems operation and maintenance check. A 16 amperes (A) breaker fault, 230 volt/50 A service outlet, and 1207 compressor was installed.

- October 18, 2005** LACO technicians arrived onsite to perform monthly systems operation and maintenance check.
- November 2, 2005** LACO technicians arrived onsite to perform monthly systems operation and maintenance check. Faulty parts were repaired or removed and replaced for sparge point stations SP1D, SP2S, SP2D, SP4S, SP4D, SP5D, SP8, and SP9.
- November 14, 2005** LACO technicians arrived onsite to perform monthly systems operation and maintenance check. Tubing for sparge points SP1D, SP2S, SP2D, SP4S, SP4D, and SP5D was replaced.
- November 15, 2005** LACO technicians arrived onsite to perform quarterly groundwater sampling. Vapor points were also sampled for laboratory analysis.
- December 1, 2005** LACO technicians arrived onsite to perform monthly systems operation and maintenance check. A 16 A breaker fault and controller fault was reset.
- December 22, 2005** LACO technicians arrived onsite to perform systems operation and maintenance check. A 16 A breaker fault was replaced. An over pressure valve was removed due to causing failure to the compressor. The compressor was replaced and the technicians installed a plug in place of an over pressure valve.
- January 20, 2006** LACO technicians arrived onsite to perform monthly systems operation and maintenance check.
- February 14, 2006** LACO technicians arrived onsite to perform quarterly groundwater sampling. Vapor points were also sampled for laboratory analysis.

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Attachment 3



Project Name: **Crescent City Shell - WSE**
 Project No.: **3503.03**
 Date: **2-14-06**
 Global ID No.: **T0601500022**
 PM: **CSM**

Tech: **SJD**
 Mob/Demob time: **.25/.25**
 Travel time: **1.0**
 Time on site: **8:00**
 Time off site: **11:20**
 Mileage: **55**

WELL No.	PZ1	OW1	OW2	MW3	DW
DIAMETER (in)	2.00	1.50	0.50	2.00	6.00
SCREENED INTERVAL (ft)	5 - 15	5 - 10	5 - 10	5 - 15	—
DEPTH TO WATER (ft)	3.92	3.92	3.92	4.10	2.19
	INITIAL	FINAL	INITIAL	FINAL	INITIAL
pH	7.1	6.9	7.0	6.8	7.1
TEMP (°C)	9.9	11.8	11.9	14.1	13.2
E _{cm} (μmhos)	219	219	213	201	221
ORP (mV)	64	87	78	89	80
DO (mg/L)	5.35	4.96	2.15	2.18	3.72
OTHER (units)	—	—	—	—	—
	INITIAL	FINAL	INITIAL	FINAL	INITIAL
TIME	10:02	10:10	10:38	10:46	10:58
METHOD (DHP/CB/B)	DHP	CAM PUMP	CAM PUMP	DHP	DHP
RATE (Lpm)	0.18	0.20	0.20	0.18	0.19
VOLUME (L)	1.40	1.60	2.0	1.75	3.0
COLOR	CLEAR	CLEAR	CLEAR	CLEAR	ORANGE TINT TURBID
ODOR	NONE	SLIGHT BAY WATER	SLIGHT SHOE STORE	NONE	LIGHT ORGANIC
INTAKE DEPTH (FEET)	10.0	9.5	9.5	10.0	10.0
TIME		10:48	11:10	9:43	9:13
METHOD (DHP/CB/B)		CAM PUMP	CAM PUMP	DHP	DHP
ANALYTICS	DTW & Field Intrinsic Only	8260 List 1; TPHd/mo w/SGC	8260 List 1; TPHd/mo w/SGC	8260 List 1; TPHd/mo w/SGC	8260 List 1; TPHd/mo w/SGC
TOTAL DRAWDOWN (FEET)	0.07	4.02	3.91	0.10	0.03
REMARKS	—	—	—	—	—
WELL CONDITION	good	good	good	ONE TAP BROKEN 2 BOLT HOLES STRAPPED	good
WASTE DRUMS					

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

REVISED: 11/3/2005



Project Name: CRESCENT CITY SHELL - WSE
Project No.: 3503.03

Tech: SJD
Date: 2-14-06

WELL ID:	METER ACCURACY RANGE					WELL ID: mw3					
DW	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmhos	+/- 2 mV	+/- 0.3 mg/L	TIME	pH	TEMP (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)
TIME	pH	TEMP (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)	9:33	7.4	12.9	191	19	2.90
8:57	8.5	10.8	130	-29	0.86	9:35	7.3	13.4	189	29	2.80
8:59	8.2	10.6	128	-30	0.64	9:37	7.2	13.8	188	36	2.77
9:01	8.0	10.5	127	-24	0.62	9:39	7.2	13.9	187	41	2.74
9:03	7.8	10.6	126	-14	0.59	9:41	7.2	13.9	185	42	2.72
9:05	7.6	10.6	126	-7	0.56						
9:07	7.6	10.6	126	-2	0.58						
9:09	7.5	10.7	126	1	0.55						
9:11	7.6	10.7	125	2	0.57						

WELL ID:	PZ1					WELL ID: OW1					
TIME	pH	TEMP (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)	TIME	pH	TEMP (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)
10:04	7.1	11.0	215	72	4.97	10:40	6.8	13.4	205	80	1.67
10:06	7.0	11.3	217	80	4.99	10:42	6.8	13.9	204	85	2.12
10:08	6.9	11.7	219	86	4.97	10:44	6.8	14.0	203	88	2.21
10:10	6.9	11.8	219	87	4.96	10:46	6.8	14.1	201	89	2.18

WELL ID:	OW2					WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)	TIME	pH	TEMP (°C)	Ecw (µmhos)	ORP (mV)	DO (mg/L)
11:00	7.1	14.0	222	84	3.02						
11:02	7.1	14.2	220	86	3.63						
11:04	7.0	14.2	221	89	5.32						
11:06	7.0	14.2	221	91	5.49						
11:08	7.0	14.3	222	91	5.57						



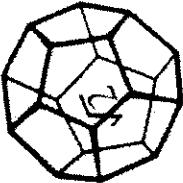
LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: CRESCENT CITY SHELL - WSE
Project No.: 3503.03

Tech: SJD
Date: 2-14-06



**NORTH COAST
LABORATORIES LTD.**

680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

RElinquished By (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
Bob D.	2-14-06 5:00	Bob D.	2/14/06 17:00

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



Project Name: WSE/PFP C.C. Shell
 Project No.: 5282.01
 Date: 2-14-06
 Global ID No.: T0601500022
 PM: CSM

Tech: SJD / RLB
 Mob/Demob time: -25 / 25
 Travel time: 3:00
 Time on site: 8:00
 Time off site: 2:00
 Mileage: 160

WELL No.	MW1	MW2	MW4	MW5	MW6
DIAMETER (in)	2.00	2.00	2.00	4.00	1.10
SCREENED INTERVAL (ft)	5-15	5-15	4-14	4-19	10 - 14
DEPTH TO WATER (ft)	3.37	2.46	3.28	3.73	4.27
FIELD INTRINSICS	INITIAL FINAL				
pH	7.9 7.4	8.0 7.0	6.8 6.4	7.4 7.0	
TEMP (°C)	12.9 13.2	12.6 13.0	13.6 14.5	11.9 11.9	
Ecv (μmhos)	530 530	110 110	340 340	300 290	
ORP (mV)	173 364	320 356	420 467	257 447	
DO (mg/L)	8.93 8.61	6.57 7.07	4.05 4.48	10.15 10.80	
OTHER (units)					
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING PURGE	TIME	9:21 9:31	9:51 9:57	10:27 10:35	11:09 11:19
METHOD (DHP/CB/B)	DHP	DHP	DHP	DHP	CAB
RATE (Lpm)	0.25	0.33	0.25	0.25	
VOLUME (L)	2.5	2.0	2.0	2.5	
COLOR	TRAN TURBID	TAN TURBID	CLEAR CLEAR	CLEAR CLEAR	CLEAR CLEAR
ODOR	WEAK GRANIC	NONE	NONE	NONE	
INTAKE DEPTH (FEET)	10.0	10.0	9.0	12.0	12.0
SAMPLE	TIME	9:33	9:59	10:37	11:21
METHOD (DHP/CB/B)	DHP	DHP	DHP	DHP	CAB
ANALYTES	8260 List 1; Diss Cr; TPHd w/SGC				
TOTAL DRAWDOWN (FEET)	0.16	0.13	0.39	0.10	
REMARKS				FD + MB	
WELL CONDITION	Good	Good	Good	Good	
WASTE DRUMS					

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: WSE/PFP C.C. Shell
 Project No.: 5282.01
 Date: 2-14-06
 Global ID No.: T0601500022
 PM: CSM

Tech: SJD/RCD
 Mob/Demob time: .25/.25
 Travel time: 3.0
 Time on site: 8:00
 Time off site: 2:00
 Mileage: 160

WELL No.	MW7	MW8	OW3	OW4	OW5
DIAMETER (in)	1.25	1.25	1.10	1.10	1.10
SCREENED INTERVAL (ft)	10-15	10-15	5 - 10	5 - 10	5 - 10
DEPTH TO WATER (ft)	46.05	2.22	4.10	3.8	3.35
	INITIAL FINAL	INITIAL FINAL	INITIAL FINAL	INITIAL FINAL	INITIAL FINAL
pH	7.3 7.0	6.9 6.9		7.2 7.1	7.2 7.1
TEMP (°C)	12.1 11.8	12.4 13.4		12.6 13.6	11.1 12.2
Ecv (μmhos)	460 450	620 530		550 540	610 600
ORP (mV)	306 486	334 391		290 337	476 519
DO (mg/L)	8.63 9.29	0.58 1.11		0.49 0.39	0.63 0.26
OTHER (units)	—	—	—	—	—
TIME	11:59 12:09	12:55 1:05		1:19 1:27	12:29 12:35
METHOD (DHP/CB/B)	Cm	Cm	Cm	Cm	Cm
RATE (Lpm)	0.30	0.25		0.33	0.33
VOLUME (L)	3.0	2.5		2.5	2.0
COLOR	CLEAR CLEAR	CLEAR ORANGE TINT		CLEAR CLEAR	CLEAR CLEAR
ODOR	NONE	LIGHT FUEL LIGHT SULFUR		VERY SLIGHT FUEL —	NONE
INTAKE DEPTH (FEET)	12.5	12.5	7.5	7.5	7.5
TIME	12:11	1:07		1:29	12:37
METHOD (DHP/CB/B)	Cm	Cm	Cm	Cm	Cm
ANALYTES	8260 list 1; Diss. Cr; TPHd w/SGC	8260 List 1; Diss Cr; TPHd w/SGC			
TOTAL DRAWDOWN (FEET)	2.80	0.14		0.55	0.94
REMARKS	—	—	—	—	—
WELL CONDITION	Good	Good	Good	Good	Good
WASTE DRUMS					



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: C6 SHELL - WSK / FSK FOR FSK

Tech: J. E. C.
Date: 2-14-06

Project No.: 5292-0

WELL ID: *MW-14*

WELL ID: MW 5

WELL ID: *MU27*

WELL ID: *PWS*



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

CC. Signs for we C

Tech: 

Date: 2-14-08

Project No.: 5282.01



Project Name: USE/PFP C.C. Shell
Project No.: 5282.01
Date: 2-14-06
Global ID No.: T0601500022
PM: CSM

Tech: SJD
Mob/Demob time: 25/50
Travel time: 2.0
Time on site: 11:25
Time off site: 2:00
Mileage: 120

WELL No.	MW1	MW2	MW4	MW5	MW6	
DIAMETER (in)	2.00	2.00	2.00	4.00	1.10	
SCREENED INTERVAL (ft)	5-15	5-15	4-14	4-19	10 - 14	
DEPTH TO WATER (ft)	3.31	2.45	3.25	3.23	4.27	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
pH					7.2	7.0
TEMP (°C)					13.9	14.9
Ecw (μmhos)					131	126
ORP (mV)					91	96
DO (mg/L)					0.92	0.16
OTHER (units)						
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING PURGE	TIME				11:38	11:44
	METHOD (DHP/CB/B)					CAM Pump
	RATE (Lpm)					0.20
	VOLUME (L)					1.60
	COLOR					CLEAR CLEAR
	ODOR					SLIGHT SULFUR
	INTAKE DEPTH (FEET)					13.0
SAMPLE	TIME					11:47
	METHOD (DHP/CB/B)					CAM Pump
	ANALYTES	8260 List 1; Diss Cr; TPHd w/SGC				
	TOTAL DRAWDOWN (FEET)					5.69
	REMARKS					
WELL CONDITION	good	good	good	good	good	good
WASTE DRUMS						



Project Name:	wsc/PFP C.C. Shell					Tech: SJD		
Project No.:	5282.01					Mob/Demob time: 1251.50		
Date:	2-14-06					Travel time: 2.0		
Global ID No.:	T0601500022					Time on site: 11:25		
PM:	CSM					Time off site: 2:00		
WELL No.:	MW7		MW8		OW3	OW4	OW5	
DIAMETER (in)	1.25		1.25		1.10	1.10	1.10	
SCREENED INTERVAL (ft)	10-15		10-15		5 - 10	5 - 10	5 - 10	
DEPTH TO WATER (ft)	4.95		2.95		4.10	3.35	2.35	
FIELD INTRINSICS	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
	pH				7.0	7.1		
	TEMP (°C)				16.0	14.5		
	E _{ow} (μmhos)				187	208		
	ORP (mV)				97	82		
	DO (mg/L)				2.89	1.27		
	OTHER (units)							
PURGE	TIME				12:02	12:12		
	METHOD (DHP/CB/B)				CAM Pump			
	RATE (Lpm)				0.20			
	VOLUME (L)				2.0			
	COLOR				CLEAR	CLEAR		
	ODOR				mild RUBBER/FUEL			
	INTAKE DEPTH (FEET)				9.5			
SAMPLE	TIME				12:15			
	METHOD (DHP/CB/B)				CAM Pump			
	ANALYTES	8260 List 1; Diss Cr; TPHd w/SGC						
	TOTAL DRAWDOWN (FEET)			3.69				
	REMARKS							
WELL CONDITION	Good	Good	good	good	good			
WASTE DRUMS								



ACO ASSOCIATES

CONSULTING ENGINEERS

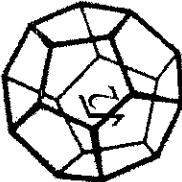
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: WSE/PFP C.C. SHELL
Project No.: S2BZ.01

Tech: SJD
Date: 2-14-06

**NORTH COAST
LABORATORIES LTD.**

55680 West End Road • Arcala • CA 95521-9202
707-822-4649 fax 707-822-6831



Chain of Custody

RElinquished By (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
Micheal J. S.	2-14-00 8:00 AM	J. D. S.	2-14-00 1:30 PM OCW Terry

Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other;
DW=Drinking Water; MATRIX=MATRIX*

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



LACO ASSOCIATES
CONSULTING ENGINEERS

21 W. 4th Street
Eureka, California 95502
707-443-5054

PROJECT **CRESCENT CITY SHELL**

BY **SJD**

SHEET NO.

LOCATION

PPF/WSE

DATE

CLIENT

CHECKED

2-14-06

JOB NO.

5282.01

5282.01

PPF/WSE CRESCENT CITY SHELL

2-14-06

SCOPE: VAPOR SAMPLES

1:00 pm - OPEN VP's

1:05 - PURGE VP1 (70 PUMPS)

1:08 - COLLECT SAMPLE VP1

1:10 - COLLECT DUPLICATE SAMPLE VP1

1:14 - PURGE VP2 (70 PUMPS)

1:16 - COLLECT SAMPLE VP2

1:19 - COLLECT DUPLICATE SAMPLE VP2

1:22 - PURGE VP3 - WATER IN LINE

1:24 - PURGE VP4 - WATER IN LINE

1:26 - PURGE VP5 (70 PUMPS)

1:28 - COLLECT SAMPLE VP5

1:29 - COLLECT DUPLICATE SAMPLE VP5

1:33 - PURGE VP6 (70 PUMPS)

1:35 - COLLECT SAMPLE VP6

WATER COLLECTING IN LINE

UNABLE TO COLLECT DUPLICATE SAMPLE

PACKAGE SAMPLES AND SHIP VIA FEDEX

AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY
CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

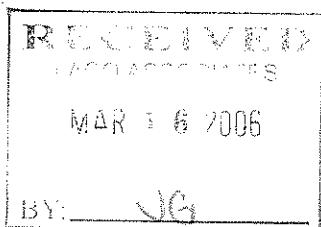
Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. P.O.T. Hotline (800) 467-4922

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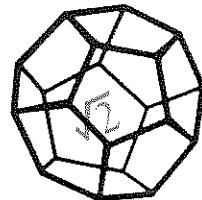
March 13, 2006



LACO Associates
P.O. Box 1023
Eureka, CA 95502

Attn: Accounts Payable

RE: 3503.03, CRESCENT CITY SHELL



NORTH COAST
LABORATORIES LTD.

Order No.: 0602290
Invoice No.: 56804
PO No.: TASK 3035
ELAP No. 1247-Expires July 2006

CJW

CSM dr
CAL

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	3503-MW3-W
01D	3503-MW3-W
02A	3503-DW-W
02D	3503-DW-W
03A	3503-OW1-W
03D	3503-OW1-W
04A	3503-OW2-W
04D	3503-OW2-W
05A	3503-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Colleen Blackstone _____

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr. (for JGC)

Jesse G. Chaney, Jr.
Laboratory Director

CLIENT: LACO Associates
Project: 3503.03, CRESCENT CITY SHELL
Lab Order: 0602290

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

Gasoline Components/Additives:

The surrogate recoveries for samples 3503-DW-W and 3503-OW1-W were below the lower acceptance limit. The response of the reporting limit standard was such that the analytes would have been detected even with the low recoveries; therefore, the data were accepted.

The laboratory control sample duplicate (LCSD) recoveries were above the upper acceptance limits for m,p-xylene, o-xylene and the surrogate, 1,4-dichlorobenzene-d4. These recoveries indicate that the sample results may be erroneously high. There were no detectable levels of the analytes in the samples; therefore, the data were accepted.

The relative percent differences (RPDs) for the laboratory control samples were above the acceptance limits for TBA, m,p-xylene and the surrogate, 1,4-dichlorobenzene-d4. This indicates that the results could be variable. Since there were no detectable levels of analytes in the samples, the data were accepted.

TPH as Diesel:

The laboratory control sample (LCS) recovery was above the upper acceptance limit for the surrogate, n-tricosane. This recovery indicates that the sample results may be erroneously high. There were no detectable levels of the analyte in the samples; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for the surrogate, n-tricosane. This indicates that the results could be variable. Since there were no detectable levels of analyte in the samples, the data were accepted.

Date: 13-Mar-06
WorkOrder: 0602290

ANALYTICAL REPORT

Client Sample ID: 3503-MW3-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602290-01A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	81.5	80.8-139	% Rec	1.0		2/24/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

Client Sample ID: 3503-MW3-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602290-01D **Matrix:** Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/22/06	2/24/06
Surrogate: N-Tricosane	100	70-130	% Rec	1.0	2/22/06	2/24/06

Date: 13-Mar-06
WorkOrder: 0602290

ANALYTICAL REPORT

Client Sample ID: 3503-DW-W **Received:** 2/14/06 **Collected:** 2/14/06 0:00
Lab ID: 0602290-02A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	78.3	80.8-139	% Rec	1.0		2/24/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

Client Sample ID: 3503-DW-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602290-02D **Matrix:** Groundwater

Test Name: TPH as Diesel

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/22/06	2/24/06
Surrogate: N-Tricosane	87.7	70-130	% Rec	1.0	2/22/06	2/24/06

Date: 13-Mar-06
WorkOrder: 0602290

ANALYTICAL REPORT

Client Sample ID: 3503-OW1-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602290-03A Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	79.4	80.8-139	% Rec	1.0		2/24/06

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

Client Sample ID: 3503-OW1-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602290-03D Matrix: Groundwater

Test Name:	TPH as Diesel					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/22/06	2/24/06
Surrogate: N-Tricosane	104	70-130	% Rec	1.0	2/22/06	2/24/06

Date: 13-Mar-06
WorkOrder: 0602290

ANALYTICAL REPORT

Client Sample ID: 3503-OW2-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602290-04A Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	81.7	80.8-139	% Rec	1.0		2/24/06

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

Client Sample ID: 3503-OW2-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602290-04D Matrix: Groundwater

Test Name:	TPH as Diesel with Silica Gel Cleanup					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	72.9	38-129	% Rec	1.0	2/27/06	3/10/06

Date: 13-Mar-06
WorkOrder: 0602290

ANALYTICAL REPORT

Client Sample ID: 3503-QCTB-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602290-05A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	82.8	80.8-139	% Rec	1.0		2/24/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

North Coast Laboratories, Ltd.

Date: 13-Mar-06

CLIENT: LACO Associates
Work Order: 0602290
Project: 3503.03, CRESCENT CITY SHELL

QC SUMMARY REPORT

Method Blank

Sample ID:	MB 022406	Batch ID:	R39930	Test Code:	8260OXYW	Units:	µg/L	Analysis Date: 2/24/06 5:32:00 AM			Prep Date:	
Client ID:		Run ID:		ORGCMS2_060224A				SeqNo:	573665			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0										
Tert-butyl alcohol (TBA)	ND	10										
Di-isopropyl ether (DIPE)	ND	1.0										J
Ethyl tert-butyl ether (ETBE)	ND	1.0										
Benzene	0.1115	0.50										J
Tert-amyl methyl ether (TAME)	ND	1.0										J
Toluene	0.3257	0.50										
Ethylbenzene	ND	0.50										
m,p-Xylene	ND	0.50										
o-Xylene	0.2081	0.50										
1,4-Dichlorobenzene-d4	0.816	0.10	1.00	0	0	81.6%		81	139	0		
Sample ID:	MB 022406	Batch ID:	R39932	Test Code:	GASW-MS	Units:	µg/L	Analysis Date: 2/24/06 5:32:00 AM			Prep Date:	
Client ID:		Run ID:		ORGCMS2_060224B				SeqNo:	573692			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
TPHC Gasoline	ND	50										
Sample ID:	MB-15257	Batch ID:	15257	Test Code:	SGTPHDW	Units:	µg/L	Analysis Date: 3/10/06 5:51:07 PM			Prep Date: 2/27/06	
Client ID:		Run ID:		ORGC5_060310A				SeqNo:	578006			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	26.94	50										J
N-Tricosane	44.2	0.10	50.0	0	0	88.4%		38	129	0		

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

QC SUMMARY REPORT

Method Blank

CLIENT: LACO Associates
Work Order: 0602290
Project: 3503.03, CRESCENT CITY SHELL

Sample ID:	MB-15235	Batch ID:	15235	Test Code:	TPHDIW	Units:	µg/L	Analysis Date:	2/23/06 6:32:58 PM	Prep Date:	2/22/06	
Client ID:		Run ID:		ORGC7_060223A				SeqNo:	573574			
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)		ND	50	50.0	0	117%	70	130	0	0		
N-Tricosane	58.4	0.10										

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 13-Mar-06

CLIENT: LACO Associates
Work Order: 0602290
Project: 3503.03, CRESCENT CITY SHELL

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: LCS-06122		Batch ID: R39930		Test Code: 8260OXYW		Units: µg/L		Analysis Date: 2/24/06 2:30:00 AM		Prep Date:		
Client ID:		Run ID: ORGCMS2_060224A		SPK value		SPK Ref Val		% Rec		SeqNo: 573663		
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)		17.90	1.0	20.0	0	89.5%	80	120	0	0	0	
Tert-butyl alcohol (TBA)		497.2	10	400	0	124%	25	162	0	0	0	
Di-isopropyl ether (DIPE)		19.59	1.0	20.0	0	97.9%	80	120	0	0	0	
Ethyl tert-butyl ether (ETBEE)		19.01	1.0	20.0	0	95.1%	77	120	0	0	0	
Benzene		18.73	0.50	20.0	0	93.7%	78	117	0	0	0	
Tert-amyl methyl ether (TAME)		20.09	1.0	20.0	0	100%	64	136	0	0	0	
Toluene		17.82	0.50	20.0	0	89.1%	80	120	0	0	0	
Ethylbenzene		20.08	0.50	20.0	0	100%	80	120	0	0	0	
m,p-Xylene		41.52	0.50	40.0	0	104%	80	120	0	0	0	
o-Xylene		21.32	0.50	20.0	0	107%	80	120	0	0	0	
1,4-Dichlorobenzene-d4		1.17	0.10	1.00	0	117%	81	139	0	0	0	
Sample ID: LCSD-06122		Batch ID: R39930		Test Code: 8260OXYW		Units: µg/L		Analysis Date: 2/24/06 11:02:00 AM		Prep Date:		
Client ID:		Run ID: ORGCMS2_060224A		SPK value		SPK Ref Val		% Rec		SeqNo: 573674		
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	% RPD	RPD Limit	Qual
Methyl tert-butyl ether (MTBE)		17.26	1.0	20.0	0	86.3%	80	120	17.9	3.64%	20	
Tert-butyl alcohol (TBA)		336.3	10	400	0	84.1%	25	162	497	38.6%	20	R
Di-isopropyl ether (DIPE)		19.93	1.0	20.0	0	99.7%	80	120	19.6	1.75%	20	
Ethyl tert-butyl ether (ETBEE)		19.31	1.0	20.0	0	96.6%	77	120	19.0	1.59%	20	
Benzene		21.68	0.50	20.0	0	108%	78	117	18.7	14.6%	20	
Tert-amyl methyl ether (TAME)		19.86	1.0	20.0	0	99.3%	64	136	20.1	1.14%	20	
Toluene		19.10	0.50	20.0	0	95.5%	80	120	17.8	6.91%	20	
Ethylbenzene		22.75	0.50	20.0	0	114%	80	120	20.1	12.4%	20	
m,p-Xylene		51.11	0.50	40.0	0	128%	80	120	41.5	20.7%	20	SR
o-Xylene		24.75	0.50	20.0	0	124%	80	120	21.3	14.9%	20	S
1,4-Dichlorobenzene-d4		1.46	0.10	1.00	0	146%	81	139	1.17	22.0%	20	SR

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Laboratory Control Spike

CLIENT: LACO Associates
Work Order: 0602290
Project: 3503.03, CRESCENT CITY SHELL

Sample ID: LCS-06123	Batch ID: R39932	Test Code: GASW-MS	Units: µg/L	Analysis Date: 2/24/06 4:01:00 AM				Prep Date:			
Client ID:		Run ID: ORGCMSS2_060224B		SeqNo:	573690 <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <td></td> <td></td>						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,108	50	1,000	0	111%	80	120	0			
Sample ID: LCSD-06123	Batch ID: R39932	Test Code: GASW-MS	Units: µg/L	Analysis Date: 2/24/06 11:32:00 AM				Prep Date:			
Client ID:		Run ID: ORGCMSS2_060224B		SeqNo:	573701 <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <td></td> <td></td>						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,164	50	1,000	0	116%	80	120	1,110	4.99%	20	
Sample ID: LCS-15257	Batch ID: 15257	Test Code: SGTPHDW	Units: µg/L	Analysis Date: 3/10/06 3:56:41 PM				Prep Date: 2/27/06			
Client ID:		Run ID: ORG5C_060310A		SeqNo:	577987 <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <td></td> <td></td>						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) N-Tricosane	437.6 47.1	50 0.10	500 50.0	0 0	87.5% 94.2%	41 38	96 129	0 0			
Sample ID: LCSD-15257	Batch ID: 15257	Test Code: SGTPHDW	Units: µg/L	Analysis Date: 3/10/06 4:19:34 PM				Prep Date: 2/27/06			
Client ID:		Run ID: ORG5C_060310A		SeqNo:	577999 <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <td></td> <td></td>						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) N-Tricosane	439.2 50.5	50 0.10	500 50.0	0 0	87.8% 101%	41 38	96 129	438 47.1	0.378% 7.06%	15 15	
Sample ID: LCS-15235	Batch ID: 15235	Test Code: TPHDW	Units: µg/L	Analysis Date: 2/23/06 4:31:16 PM				Prep Date: 2/22/06			
Client ID:		Run ID: ORG7_0602223A		SeqNo:	573571 <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <td></td> <td></td>						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22) N-Tricosane	481.0 72.9	50 0.10	500 50.0	0 0	96.2% 146%	67 70	120 130	0 0			S

Qualifiers:

J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: LACO Associates
Work Order: 0602290
Project: 3503.03, CRESCENT CITY SHELL

Sample ID: LCSD-15235	Batch ID: 15235	Test Code: TPHDIW	Units: µg/L	Analysis Date: 2/23/06 4:51:36 PM			Prep Date: 2/22/06				
Client ID:		Run ID: ORGCT_060223A		SeqNo:	573572						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	491.6	50	500	0	98.3%	67	120	481	2.18%	15	
N-Tricosane	62.6	0.10	50.0	0	125%	70	130	72.9	15.2%	15	R

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**NORTH COAST
LABORATORIES LTD.**

55680 West End Road • Arcata • CA 95521-9202
707-822-4649 fax 707-822-6831

Chain of Custody

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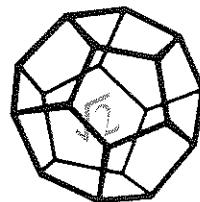
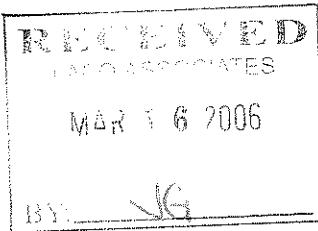
55680 West End Road • Arcata • CA 95521-9202
707-822-4649 fax 707-822-6831

Attention:	Accounts Payable							
Results & Invoice to:	Laco Associates							
Address:	21 W. 4th St. Eureka CA 95501							
Phone:	(707) 443-5054							
Copies of Report to:	LACO ; CHRISTINE MANHART							
Sampler (Sign & Print):	SID 							
PROJECT INFORMATION								
Project Number:	3503.03							
Project Name:	CRESCENT CITY SHELL							
Purchase Order Number:	task 3035							
LAB ID	SAMPLE ID	DATE	TIME	MATRIX*				
3503-MW3-W		2-14-06	AM	GW				
3503-DW.W								
3503-OW1-W								
3503-OW2-W								
3503-QCTB-W								

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
John Doe	2-14-06 5:00	John Doe	2-14-06 17:00

GLOSSARY: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Outer.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



NORTH COAST
LABORATORIES LTD.

March 14, 2006

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Attn: Accounts Payable
RE: 5282.01, HPI/PFP C.C. Shell

CJW
CSM CK
CSL

Order No.: 0602291
Invoice No.: 56805
PO No.: TASK 3035
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	5282-MW1-W
01D	5282-MW1-W
01E	5282-MW1-W (Dissolved)
02A	5282-MW2-W
02D	5282-MW2-W
02E	5282-MW2-W (Dissolved)
03A	5282-MW4-W
03D	5282-MW4-W
03E	5282-MW4-W (Dissolved)
04A	5282-MW5-W
04D	5282-MW5-W
04E	5282-MW5-W (Dissolved)
05A	5282-MW6-W
05D	5282-MW6-W
05E	5282-MW6-W (Dissolved)
06A	5282-MW7-W
06D	5282-MW7-W
06E	5282-MW7-W (Dissolved)
07A	5282-MW8-W
07D	5282-MW8-W
07E	5282-MW8-W (Dissolved)
08A	5282-OW3-W
08D	5282-OW3-W
08E	5282-OW3-W (Dissolved)
09A	5282-OW4-W
09D	5282-OW4-W
09E	5282-OW4-W (Dissolved)
10A	5282-OW5-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Jesse G. Chaney, Jr.
Laboratory Supervisor(s)
Allen Blackstone

Jesse G. Chaney, Jr.
QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

March 13, 2006

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Attn: Accounts Payable

RE: 5282.01, HPI/PFP C.C. Shell

Order No.: 0602291
Invoice No.: 56805
PO TASK 3035
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

10D	5282-OW5-W
10E	5282-OW5-W
11A	5282-QCMB-W
12A	5282-QCFD-W
13A	5282-QCTB-W

CLIENT: LACO Associates
Project: 5282.01, HPI/PFP C.C. Shell
Lab Order: 0602291

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel. The samples showing no detectable levels of the analyte were not subjected to the cleanup procedure.

TPH as Diesel with Silica Gel Cleanup:

Sample 5282-MW8-W contains some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. This sample also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

Sample 5282-MW2-W contains material similar to degraded or weathered diesel oil.

Samples 5282-OW3-W & 5282-OW4-W contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

Gasoline Components/Additives:

Samples 5282-OW4-W & 5282-OW5-W do not present a peak pattern consistent with that of gasoline. The reported results represent the amount of material in the gasoline range.

The gasoline values for samples 5282-MW8-W & 5282-OW3-W include the reported gasoline components in addition to other peaks in the gasoline range.

The surrogate recoveries for samples 5282-MW5-W, 5282-OW4-W, 5282-OW5-W and 5282-QCMB-W were below the lower acceptance limit. The response of the reporting limit standard was such that the analytes would have been detected even with the low recoveries; therefore, the data were accepted.

The laboratory control sample duplicate (LCSD) recoveries were above the upper acceptance limits for m,p-xylene, o-xylene and the surrogate, 1,4-dichlorobenzene-d4. The laboratory control sample (LCS) recoveries were within the acceptable limits; therefore, the data were accepted.

The relative percent differences (RPDs) for the laboratory control samples were above the acceptance limits for TBA, m,p-xylene and the surrogate, 1,4-dichlorobenzene-d4. This indicates that the results could be variable.

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-MW1-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-01A Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	82.1	80.8-139	% Rec	1.0		2/25/06

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-MW1-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-01D Matrix: Groundwater

Test Name:	TPH as Diesel with Silica Gel Cleanup					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	79.8	38-129	% Rec	1.0	2/27/06	3/10/06

Client Sample ID: 5282-MW1-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-01E Matrix: Groundwater

Test Name:	ICAP Metals with Acid Digestion					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-MW2-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-02A Matrix: Groundwater

Test Name: Gasoline Components/Additives		Reference: LUFT/EPA 8260B Modified				
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	7.8	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	81.1	80.8-139	% Rec	1.0		2/25/06

Test Name: TPH as Gasoline		Reference: LUFT/EPA 8260B Modified				
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-MW2-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-02D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup		Reference: EPA 3510/3630/GCFID(LUFT)/8015B				
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	55	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	80.1	38-129	% Rec	1.0	2/27/06	3/10/06

Client Sample ID: 5282-MW2-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-02E Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion		Reference: EPA 200.7				
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	28	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-MW4-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-03A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	85.8	80.8-139	% Rec	1.0		2/24/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

Client Sample ID: 5282-MW4-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602291-03D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	77.2	38-129	% Rec	1.0	2/27/06	3/10/06

Client Sample ID: 5282-MW4-W (Dissolved)

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602291-03E Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion

Reference: EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	11	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-MW5-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-04A Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	80.7	80.8-139	% Rec	1.0		2/24/06

Test Name:	TPH as Gasoline					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

Client Sample ID: 5282-MW5-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-04D Matrix: Groundwater

Test Name:	TPH as Diesel with Silica Gel Cleanup					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	83.1	38-129	% Rec	1.0	2/27/06	3/10/06

Client Sample ID: 5282-MW5-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-04E Matrix: Groundwater

Test Name:	ICAP Metals with Acid Digestion					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-MW6-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-05A Matrix: Groundwater

Test Name:	Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	81.4	80.8-139	% Rec	1.0		2/25/06

Test Name:	Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-MW6-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-05D Matrix: Groundwater

Test Name:	Reference: EPA 3510/3630/GCFID(LUFT)/8015B					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	74.1	38-129	% Rec	1.0	2/27/06	3/10/06

Client Sample ID: 5282-MW6-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-05E Matrix: Groundwater

Test Name:	Reference: EPA 200.7					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-MW7-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-06A Matrix: Groundwater

Test Name:	Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	1.1	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	82.0	80.8-139	% Rec	1.0		2/25/06

Test Name:	Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-MW7-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-06D Matrix: Groundwater

Test Name:	Reference: EPA 3510/3630/GCFID(LUFT)/8015B					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	79.0	38-129	% Rec	1.0	2/27/06	3/10/06

Client Sample ID: 5282-MW7-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-06E Matrix: Groundwater

Test Name:	Reference: EPA 200.7					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-MW8-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-07A Matrix: Groundwater

Test Name:	Gasoline Components/Additives					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	1.8	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	0.54	0.50	µg/L	1.0		2/25/06
Ethylbenzene	16	0.50	µg/L	1.0		2/25/06
m,p-Xylene	8.9	0.50	µg/L	1.0		2/25/06
o-Xylene	1.1	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	101	80.8-139	% Rec	1.0		2/25/06

Test Name: TPH as Gasoline Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,900	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-MW8-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-07D Matrix: Groundwater

Test Name:	TPH as Diesel with Silica Gel Cleanup					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	140	50	µg/L	1.0	2/27/06	3/10/06
Surrogate: N-Tricosane	68.7	38-129	% Rec	1.0	2/27/06	3/10/06

Client Sample ID: 5282-MW8-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-07E Matrix: Groundwater

Test Name:	ICAP Metals with Acid Digestion					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-OW3-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-08A Matrix: Groundwater

Test Name:	Gasoline Components/Additives Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	0.96	0.50	µg/L	1.0		2/25/06
Ethylbenzene	4.7	0.50	µg/L	1.0		2/25/06
m,p-Xylene	23	0.50	µg/L	1.0		2/25/06
o-Xylene	29	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	84.0	80.8-139	% Rec	1.0		2/25/06

Test Name:	TPH as Gasoline Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,700	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-OW3-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-08D Matrix: Groundwater

Test Name:	TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	82	50	µg/L	1.0	2/28/06	3/3/06
Surrogate: N-Tricosane	76.2	38-129	% Rec	1.0	2/28/06	3/3/06

Client Sample ID: 5282-OW3-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-08E Matrix: Groundwater

Test Name:	ICAP Metals with Acid Digestion Reference: EPA 200.7					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-OW4-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-09A Matrix: Groundwater

Test Name:	Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	77.0	80.8-139	% Rec	1.0		2/25/06

Test Name:	Reference: LUFT/EPA 8260B Modified					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	640	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-OW4-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-09D Matrix: Groundwater

Test Name:	Reference: EPA 3510/3630/GCFID(LUFT)/8015B					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	50	50	µg/L	1.0	2/28/06	3/3/06
Surrogate: N-Tricosane	80.7	38-129	% Rec	1.0	2/28/06	3/3/06

Client Sample ID: 5282-OW4-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-09E Matrix: Groundwater

Test Name:	Reference: EPA 200.7					
Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-OW5-W Received: 2/14/06 Collected: 2/14/06 0:00
Lab ID: 0602291-10A Matrix: Groundwater

Test Name: Gasoline Components/Additives Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	0.51	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	74.4	80.8-139	% Rec	1.0		2/25/06

Test Name: TPH as Gasoline Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	69	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-OW5-W Received: 2/14/06 Collected: 2/14/06 0:00

Lab ID: 0602291-10D Matrix: Groundwater

Test Name: TPH as Diesel with Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	2/28/06	3/3/06
Surrogate: N-Tricosane	107	38-129	% Rec	1.0	2/28/06	3/3/06

Client Sample ID: 5282-OW5-W (Dissolved) Received: 2/14/06 Collected: 2/14/06 0:00

Lab ID: 0602291-10E Matrix: Groundwater

Test Name: ICAP Metals with Acid Digestion Reference: EPA 200.7

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Chromium	ND	10	µg/L	1.0	2/22/06	2/23/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-QCMB-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602291-11A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	78.2	80.8-139	% Rec	1.0		2/25/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/25/06

Client Sample ID: 5282-QCFD-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602291-12A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/25/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/25/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/25/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/25/06
Benzene	ND	0.50	µg/L	1.0		2/25/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/25/06
Toluene	ND	0.50	µg/L	1.0		2/25/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/25/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/25/06
o-Xylene	ND	0.50	µg/L	1.0		2/25/06
Surrogate: 1,4-Dichlorobenzene-d4	82.2	80.8-139	% Rec	1.0		2/25/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/25/06

Date: 14-Mar-06
WorkOrder: 0602291

ANALYTICAL REPORT

Client Sample ID: 5282-QCTB-W

Received: 2/14/06

Collected: 2/14/06 0:00

Lab ID: 0602291-13A

Matrix: Trip Blank

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		2/24/06
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		2/24/06
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		2/24/06
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		2/24/06
Benzene	ND	0.50	µg/L	1.0		2/24/06
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		2/24/06
Toluene	ND	0.50	µg/L	1.0		2/24/06
Ethylbenzene	ND	0.50	µg/L	1.0		2/24/06
m,p-Xylene	ND	0.50	µg/L	1.0		2/24/06
o-Xylene	ND	0.50	µg/L	1.0		2/24/06
Surrogate: 1,4-Dichlorobenzene-d4	82.7	80.8-139	% Rec	1.0		2/24/06

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		2/24/06

North Coast Laboratories, Ltd.

Date: 13-Mar-06

QC SUMMARY REPORT

Method Blank

CLIENT: LACO Associates
Work Order: 0602291
Project: 5282.01, HPLC/PFP C.C. Shell

Sample ID: MB 022406	Batch ID: R39930	Test Code: 8260OXYW	Units: µg/L	Analysis Date: 2/24/06 5:32:00 AM			Prep Date:
Client ID:	Run ID: ORGCMS2_060224A	SeqNo: 573665		% Rec	LowLimit	HighLimit	RPD Ref Val
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit
Methyl tert-butyl ether (MTBE)	ND	1.0					
Tert-butyl alcohol (TBA)	ND	10					
Di-isopropyl ether (DIPE)	ND	1.0					
Ethyl tert-butyl ether (ETBE)	ND	1.0					
Benzene	0.1115	0.50					
Ter-amyl methyl ether (TAME)	ND	1.0					
Toluene	0.3257	0.50					
Ethylbenzene	ND	0.50					
m,p-Xylene	ND	0.50					
o-Xylene	0.2081	0.50					
1,4-Dichlorobenzene-d4	0.8116	0.10	1.00	0	81.6%	81	139
<hr/>							
Sample ID: MB 022406	Batch ID: R39932	Test Code: GASW-MS	Units: µg/L	Analysis Date: 2/24/06 5:32:00 AM			Prep Date:
Client ID:	Run ID: ORGCMS2_060224B	SeqNo: 573692		% Rec	LowLimit	HighLimit	RPD Ref Val
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit
TPHC Gasoline	ND	50					
<hr/>							
Sample ID: MB-15238P	Batch ID: 15238	Test Code: ICPX	Units: µg/L	Analysis Date: 2/23/06 2:52:00 PM			Prep Date: 2/22/06
Client ID:	Run ID: INICP1_060223B	SeqNo: 573194		% Rec	LowLimit	HighLimit	RPD Ref Val
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit
Chromium	1.790	10					

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: LACO Associates
Work Order: 0602291
Project: 5282.01, HPI/PFP C.C. Shell

Sample ID: MB-15269	Batch ID: 15269	Test Code: SGTPHDW	Units: µg/L	Analysis Date: 3/2/06 11:55:10 PM				Prep Date: 2/28/06			
Client ID:		Run ID: ORGCS_060302B		SeqNo:	57 6899						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	46.51	50									J
N-Tricosane	40.9	0.10	50.0	0	81.8%	38	129	0	0		
Sample ID: MB-15257	Batch ID: 15257	Test Code: SGTPHDW	Units: µg/L	Analysis Date: 3/10/06 5:51:07 PM				Prep Date: 2/27/06			
Client ID:		Run ID: ORGCS_060310A		SeqNo:	57 8006						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	26.94	50									J
N-Tricosane	44.2	0.10	50.0	0	88.4%	38	129	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 13-Mar-06

CLIENT: LACO Associates
Work Order: 0602291
Project: 5282.01, HPI/PFP C.C. Shell

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID: LCS-06122		Batch ID: R39930		Test Code: 8260OXYW		Units: µg/L		Analysis Date: 2/24/06 2:30:00 AM		Prep Date:	
Client ID:		Run ID: ORGCMS2_060224A						SeqNo: 573663			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	17.90	1.0	20.0	0	89.5%	80	120	0	0	0	
Tert-butyl alcohol (TBA)	497.2	10	400	0	124%	25	162	0	0	0	
Di-isopropyl ether (DIPE)	19.59	1.0	20.0	0	97.9%	80	120	0	0	0	
Ethyl tert-butyl ether (ETBE)	19.01	1.0	20.0	0	95.1%	77	120	0	0	0	
Benzene	18.73	0.50	20.0	0	93.7%	78	117	0	0	0	
Tert-amyl methyl ether (TAME)	20.09	1.0	20.0	0	100%	64	136	0	0	0	
Toluene	17.82	0.50	20.0	0	89.1%	80	120	0	0	0	
Ethylbenzene	20.08	0.50	20.0	0	100%	80	120	0	0	0	
m,p-Xylene	41.52	0.50	40.0	0	104%	80	120	0	0	0	
o-Xylene	21.32	0.50	20.0	0	107%	80	120	0	0	0	
1,4-Dichlorobenzene-d4	1.17	0.10	1.00	0	117%	81	139	0	0	0	
Sample ID: LCSD-06122		Batch ID: R39930		Test Code: 8260OXYW		Units: µg/L		Analysis Date: 2/24/06 11:02:00 AM		Prep Date:	
Client ID:		Run ID: ORGCMS2_060224A						SeqNo: 573674			
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	17.26	1.0	20.0	0	86.3%	80	120	17.9	3.64%	20	
Tert-butyl alcohol (TBA)	336.3	10	400	0	84.1%	25	162	497	38.6%	20	R
Di-isopropyl ether (DIPE)	19.93	1.0	20.0	0	99.7%	80	120	19.6	1.75%	20	
Ethyl tert-butyl ether (ETBE)	19.31	1.0	20.0	0	96.6%	77	120	19.0	1.59%	20	
Benzene	21.68	0.50	20.0	0	108%	78	117	18.7	14.6%	20	
Tert-amyl methyl ether (TAME)	19.86	1.0	20.0	0	99.3%	64	136	20.1	1.14%	20	
Toluene	19.10	0.50	20.0	0	95.5%	80	120	17.8	6.91%	20	
Ethylbenzene	22.75	0.50	20.0	0	114%	80	120	20.1	12.4%	20	
m,p-Xylene	51.11	0.50	40.0	0	128%	80	120	41.5	20.7%	20	SR
o-Xylene	24.75	0.50	20.0	0	124%	80	120	21.3	14.9%	20	S
1,4-Dichlorobenzene-d4	1.46	0.10	1.00	0	146%	81	139	1.17	22.0%	20	SR

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

QC SUMMARY REPORT
Laboratory Control Spike

CLIENT: LACO Associates
Work Order: 0602291
Project: 5282.01, HPI/PFP C.C. Shell

Sample ID: LCS-06123	Batch ID: R39932	Test Code: GASW-MS	Units: µg/L	Analysis Date: 2/24/06 4:01:00 AM				Prep Date:			
Client ID:		Run ID: ORGCMS2_060224B	<th>SeqNo:</th> <td data-cs="4" data-kind="parent">573690</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <th></th>	SeqNo:	573690						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,108	50	1,000	0	111%	80	120	0			
Sample ID: LCSD-06123	Batch ID: R39932	Test Code: GASW-MS	Units: µg/L	Analysis Date: 2/24/06 11:32:00 AM				Prep Date:			
Client ID:		Run ID: ORGCMS2_060224B	<th>SeqNo:</th> <td data-cs="4" data-kind="parent">573701</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <th></th>	SeqNo:	573701						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,164	50	1,000	0	116%	80	120	1,110	4.99%	20	
Sample ID: LCS-15238P	Batch ID: 15238	Test Code: ICPX	Units: µg/L	Analysis Date: 2/23/06 2:56:00 PM				Prep Date: 2/22/06			
Client ID:		Run ID: INICP1_060223B	<th>SeqNo:</th> <td data-cs="4" data-kind="parent">573195</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <th></th>	SeqNo:	573195						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	473.2	10	500	1.79	94.3%	85	115	0			
Sample ID: LCS-15269	Batch ID: 15269	Test Code: SGTPHDW	Units: µg/L	Analysis Date: 3/2/06 10:24:13 PM				Prep Date: 2/28/06			
Client ID:		Run ID: ORGC5_060302B	<th>SeqNo:</th> <td data-cs="4" data-kind="parent">576897</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <th></th>	SeqNo:	576897						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22), N-Tricosane	341.4	50	500	0	68.3%	41	96	0			
	45.9	0.10	50.0	0	91.8%	38	129	0			
Sample ID: LCSD-15269	Batch ID: 15269	Test Code: SGTPHDW	Units: µg/L	Analysis Date: 3/2/06 10:46:53 PM				Prep Date: 2/28/06			
Client ID:		Run ID: ORGC5_060302B	<th>SeqNo:</th> <td data-cs="4" data-kind="parent">576898</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <th></th>	SeqNo:	576898						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22), N-Tricosane	372.4	50	500	0	74.5%	41	96	341	8.68%	15	
	45.2	0.10	50.0	0	90.4%	38	129	45.9	1.49%	15	

Qualifiers:

J - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Laboratory Control Spike

CLIENT:	LACO Associates										
Work Order:	0602291										
Project:	5282.01, HPI/PFP C.C. Shell										
Sample ID: LCS-15257	Batch ID: 15257	Test Code: SGTPHDW	Units: µg/L							Prep Date: 2/27/06	
Client ID:		Run ID: ORGCG_060310A									
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	437.6	50	500	0	87.5%	41	96	0	0		
N-Tricosane	47.1	0.10	50.0	0	94.2%	38	129	0	0		
Sample ID: LCSD-15257	Batch ID: 15257	Test Code: SGTPHDW	Units: µg/L							Prep Date: 2/27/06	
Client ID:		Run ID: ORGCG_060310A									
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	439.2	50	500	0	87.8%	41	96	438	0.378%	15	
N-Tricosane	50.5	0.10	50.0	0	101%	38	129	47.1	7.06%	15	

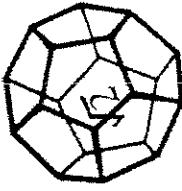
Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



NORTH COAST
LABORATORIES LTD.

66680 West End Road • Arcata • CA 95521-9202
707-822-4649 fax 707-822-6831

Chain of Custody

707-822-4849 fax 707-822-6831

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO; Christine Manhart
Sampler (Sign & Print): Stef

TAT: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> 5-7 Day	<input type="checkbox"/> Other: _____
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES	
REPORTING REQUIREMENTS: State Forms <input type="checkbox"/>	
Preliminary: <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> By: _____	Final Report: <input type="checkbox"/> Verbal <input type="checkbox"/> By: _____
CONTAINER CODES: 1— $\frac{1}{2}$ gal. pt; 2—250 ml pt; 3—500 ml pt; 4—1 L Na/gene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other	
PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₅ O ₂ Cl; g—other	
SAMPLE CONDITION/SPECIAL INSTRUCTIONS	
GEOTRACKER	DISSOLVED METALS = <input type="checkbox"/>
SAMPLE DISPOSAL	
<input type="checkbox"/> NCL Disposal of Non-Contaminated	
<input type="checkbox"/> Return	
CHAIN OF CUSTODY SEALS Y/N/NA	
<input type="checkbox"/> Pickup	
SHIPPED VIA: UPS Air-FEx Fed-Ex Bus Hand	

RElinquished By (Sign & Print)	DATETIME	RECEIVED BY (Sign)	DATE/TIME
Mark L. Danner	2-14-06 5:00	Mark L. Danner	2-14-06 5:00 LFB COL/ABG ZMH/ob

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

**NORTH COAST
LABORATORIES LTD.**

5680 West End Road • Arcata • CA 95521-9202
707.822.4619 Fax 707.822.6811

Chain of Custody

* MATRI_X: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

Attachment 4



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0602346

Work Order Summary

CLIENT: Ms. Christine Manhart
Laco Associates
21 W. 4th Street
Eureka, CA 95501

BILL TO: Ms. Christine Manhart
Laco Associates
21 W. 4th Street
Eureka, CA 95501

PHONE: 707-443-5054 **P.O. #**
FAX: 707-443-0553 **PROJECT #** 5282.01 PFP/WSE C.C. Shell
DATE RECEIVED: 02/15/2006 **CONTACT:** Nicole Danbacher
DATE COMPLETED: 03/01/2006

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT</u>
			<u>VAC./PRES.</u>
01A	5282-VP1 (1308)	Mod. Method TO-14A	Tedlar Bag
02A(on hold)	5282-VP1 (1310)	Mod. Method TO-14A	Tedlar Bag
03A	5282-VP2 (1316)	Mod. Method TO-14A	Tedlar Bag
04A(on hold)	5282-VP2 (1319)	Mod. Method TO-14A	Tedlar Bag
05A	5282-VP5 (1326)	Mod. Method TO-14A	Tedlar Bag
06A(on hold)	5282-VP5 (1328)	Mod. Method TO-14A	Tedlar Bag
07A	5282-VP6 (1335)	Mod. Method TO-14A	Tedlar Bag
07AA	5282-VP6 (1335) Duplicate	Mod. Method TO-14A	Tedlar Bag
08A	Lab Blank	Mod. Method TO-14A	NA
09A	CCV	Mod. Method TO-14A	NA
10A	LCS	Mod. Method TO-14A	NA

CERTIFIED BY: Nicole Danbacher

DATE: 03/01/06

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Mod. Method TO-14A
Laco Associates
Workorder# 0602346

Seven 1 Liter Tedlar Bag samples were received on February 15, 2006. The laboratory performed the analysis via Modified Method TO-14A using GC/MS in the full scan mode. The method involves direct injection of up to a 40 mL sample aliquot into a vapor management system. Following dehumidification the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-14A	ATL Modifications
Initial Calibration	+/- 30 % RSD	</= 30 % RSD with 2 compounds allowed out to < 40 %.
Daily CCV	+/- 30 % D	</= 30 % D with 2 allowed out up to 40%; flag and narrate associated sample results
BFB Tune Absolute Abundance Criteria	Within 10% of that from the previous day.	CCV Internal Standard area counts are compared to the ICAL; corrective action for > 40 %D
Blank acceptance criteria	< 0.2 ppbv	< RL
Sampling Drying System	Nafion Dryer	Multisorbent concentrator
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

Sample identifications on the chain of custody were not unique. The time of collection was added to the identification to assure uniqueness.

Samples 5282-VP1 (1310), 5282-VP2 (1319) and 5282-VP5 (1328) were placed on hold per the client's request.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.
Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

Client Sample ID: 5282-VP1 (1308)

Lab ID#: 0602346-01A

No Detections Were Found.

Client Sample ID: 5282-VP2 (1316)

Lab ID#: 0602346-03A

No Detections Were Found.

Client Sample ID: 5282-VP5 (1326)

Lab ID#: 0602346-05A

No Detections Were Found.

Client Sample ID: 5282-VP6 (1335)

Lab ID#: 0602346-07A

No Detections Were Found.

Client Sample ID: 5282-VP6 (1335) Duplicate

Lab ID#: 0602346-07AA

No Detections Were Found.

AIR TOXICS LTD.

Client Sample ID: 5282-VP1 (1308)

Lab ID#: 0602346-01A

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021705	Date of Collection:	2/14/06
Dil. Factor:	1.00	Date of Analysis:	2/17/06 08:19 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

AIR TOXICS LTD.

Client Sample ID: 5282-VP2 (1316)

Lab ID#: 0602346-03A

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021706	Date of Collection:	2/14/06
Dil. Factor:	1.00	Date of Analysis:	2/17/06 08:45 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
<u>o-Xylene</u>	<u>5.0</u>	<u>Not Detected</u>	<u>22</u>	<u>Not Detected</u>
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

AIR TOXICS LTD.

Client Sample ID: 5282-VP5 (1326)

Lab ID#: 0602346-05A

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021707	Date of Collection:	2/14/06
Dil. Factor:	1.00	Date of Analysis:	2/17/06 09:15 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

AIR TOXICS LTD.

Client Sample ID: 5282-VP6 (1335)

Lab ID#: 0602346-07A

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021708	Date of Collection:	2/14/06
Dil. Factor:	1.00	Date of Analysis:	2/17/06 09:36 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

AIR TOXICS LTD.

Client Sample ID: 5282-VP6 (1335) Duplicate

Lab ID#: 0602346-07AA

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021709	Date of Collection:	2/14/06
Dil. Factor:	1.00	Date of Analysis:	2/17/06 09:59 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0602346-08A

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021704	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/17/06 07:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0602346-09A

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021702	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/17/06 06:53 AM

Compound	%Recovery
Benzene	100
Toluene	101
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	93
Methyl tert-butyl ether	89

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0602346-10A

MODIFIED EPA METHOD TO-14A DIRECT INJECT GC/MS

File Name:	3021703	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/17/06 07:17 AM

Compound	%Recovery
Benzene	98
Toluene	96
Ethyl Benzene	96
m,p-Xylene	95
o-Xylene	87
Methyl tert-butyl ether	87

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130



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AN ELEMENTAL ATOMIC BOND INDEX

CHAIN-OFF-CUSTODY RECORD

Sample Transportation Notice

Sample Transportation Notice
Reimbursement signature on this document indicates that sample is being shipped in compliance
with all applicable local, State, Federal, national, and international laws, regulations and
standards.

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handling or shipping of these samples. Requisitioning big nature also indicates agreement to build Harsmann, defend, and indemnify AirTopics Limited against any claim, demand, or action of any kind related to any collection handled or shipped on samples of samples. (See Lethbridge, Alberta, April 15, 1971.)

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THE JOURNAL OF CLIMATE

Attachment 5



Project Name: **Crescent City Shell HPI / PFP**
 Project No.: **5282.01**
 Task: **413**
 Date: **01/20/2006**
 PM: **CSM**

Tech: **BWN**
 Mobe/Demob time: **1251/25**
 Travel time: **15/15**
 Time on site: **1230**
 Time off site: **1330**
 Mileage: **180**

SYSTEM READINGS

WEATHER = EXTREME RAIN

UNIT: C - Sparger #1

UNIT:

Master Panel Runtime (Hrs): **2748, 16**

Master Panel Runtime (Hrs):

O₂ Concentrator Runtime (Hrs): **19279**

O₂ Concentrator Runtime (Hrs):

System Clock Time: **1236 @ 1236**

System Clock Time:

STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)	STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	39	SP1s		1			
2	40	SP1d		2			
3	44	SP4s		3			
4	35	SP4d		4			
5	34	SP5d		5			
6	32	SP2s,SP3s		6			
7	34	SP2d,SP3d		7			
8	44	SP6s		8			
9	30	SP7s,SP7d		9			
10	42	SP8,SP9		10			
11				11			
12				12			

ANCILLARY INFORMATION

Power Meter (Kwh): **2867**

Max. Temperature (°F): **82.9°F**

Max. Humidity (%RH): **HIGH**

Ventilation Fan(s): **ON/OFF**

Surge Suppression:

ON/OFF

Controller Battery Voltage (volts): **N/A**

TROUBLESHOOTING

Ozone Detector Fault:

A

YES / NO

16A Breaker Fault:

YES / NO

Panel GFI Fault:

NO

Main Circuit Breaker Fault:

YES / NO

Controller Fault:

NO

Fasteners/Fittings:

Solenoid Malfunction: **OL** 1 2 3 4 5 6 7 8 9 10 11 12

Correct Controller Program:

YES / NO

Tubing:

Wires:

MAINTENANCE

O₂ Concentrator Filter

NO

Reset Temperature/Humidity

NO

Compressor Filter

NO

Check Peroxide Level

N/A

YES / NO

STATION	RUN TIME				SPARGE POINT	WELL BOX OZONE CONC. (ppm)
	A	B	C	MINUTES/DAY		
1	14	14	13	240	SP1s	
2	14	14	13	240	SP1d	
3	14	14	13	240	SP4s	
4	14	14	13	240	SP4d	
5	14	14	13	240	SP5d	
6	0	0	1	12	SP2s,SP3s	
7	0	0	1	12	SP2d,SP3d	
8	0	0	1	12	SP6s	
9	0	0	1	12	SP7s,SP7d	
10	0	0	1	12	SP8,SP9	
11						
12						
13						
TOTAL:	70	70	70	1260		
START TIMES	A	B	C	REPAIRS		
1	12:00	8:00	16:00			
2	1:20	9:20	17:20			
3	2:40	10:40	18:40			
4	4:00	12:00	20:00			
5	5:20	13:20	21:20			
6	6:40	14:40	22:40			

MODIFICATIONS



Project Name: **Crescent City Shell HPI / PFP**
 Project No.: **5282.01**
 Task: **413**
 Date: **12/22/2005**
 PM: **CSM**

Tech: **BWN**
 Mobe/Demobie time: **1251/25**
 Travel time: **1.75 / 1.75**
 Time on site: **1200**
 Time off site: **1430**
 Mileage: **180**

SYSTEM READINGS

UNIT: C - Sparger #1			UNIT:
Master Panel Runtime (Hrs): 13140.87			Master Panel Runtime (Hrs):
O ₂ Concentrator Runtime (Hrs): 18584			O ₂ Concentrator Runtime (Hrs):
System Clock Time: 14 08 2005 1408			System Clock Time:
STATION	MANIFOLD PRESSURE (psi)	SPARGE POINT	WELL HEAD PRESSURE (psi)
1	33	38	SP1s
2	32	43	SP1d
3	30	42	SP4s
4	29	36	SP4d
5	27	34	SP5d
6	33	33	SP2s,SP3s
7	34	35	SP2d,SP3d
8	26	46	SP6s
9	29	31	SP7s,SP7d
10	30	39	SP8,SP9
11			
12			

ANCILLARY INFORMATION

Power Meter (Kwh): 27969	Max. Temperature (°F): 82.9°F
Max. Humidity (%RH): 41.64	Ventilation Fan(s): ON / OFF
Surge Suppression: ON/OFF	Controller Battery Voltage (volts):

TROUBLESHOOTING

Ozone Detector Fault: N/A	YES / NO	16A Breaker Fault: REPLACED	YES / NO
Panel GFI Fault:	YES / NO	Main Circuit Breaker Fault:	YES / NO
Controller Fault: REPLACED	YES / NO	Fasteners/Fittings: ✓	
Solenoid Malfunction: 1 2 3 4 5 6 7 8 9 10 11 12		Correct Controller Program: CHANGE	YES / NO
Tubing: ✓		Wires: ✓	

MAINTENANCE

O ₂ Concentrator Filter	YES / NO	Reset Temperature/Humidity	YES / NO
Compressor Filter	YES / NO	Check Peroxide Level	YES / NO

STATION	Program Change RUN TIME 12/22/05				SPARGE POINT	WELL BOX OZONE CONC. (ppm)			
	A	B	C	MINUTES/DAY					
1	14	14	13	240	SP1s				
2	14	14	13	240	SP1d				
3	14	14	13	240	SP4s				
4	14	14	13	240	SP4d				
5	14	14	13	240	SP5d				
6	0	0	1	12	SP2s,SP3s				
7	0	0	1	12	SP2d,SP3d				
8	0	0	1	12	SP6s				
9	0	0	1	12	SP7s,SP7d				
10	0	0	1	12	SP8,SP9				
11									
12									
13									
TOTAL:	70	70	70	1260					
START TIMES	A	B	C	REPAIRS					
1	12:00	8:00	16:00	Compressor's Running AMPS > 12.0. REPLACED 16AMP BREAKER.					
2	1:20	9:20	17:20	REMOVED OVER PRESSURE VALVE.					
3	2:40	10:40	18:40	OVER PRESSURE VALVE FAILED AND RUINED COMPRESSOR. REPLACED					
4	4:00	12:00	20:00	COMPRESSOR. INSTALLED PLUG IN PLACE OF OVER PRESSURE					
5	5:20	13:20	21:20	VALVE. REPLACED COMPRESSOR					
6	6:40	14:40	22:40						
MODIFICATIONS									